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THE ICONICITY AND NON-ARBITRARINESS OF BODY LOCATIONS IN FOUR UNRELATED SIGN LANGUAGES

by

John Samson Master of Arts Theology, Southwestern Baptist Theological Seminary, 2018

> A Thesis Submitted to the Graduate Faculty

> > of the

University of North Dakota

in partial fulfillment of the requirements

for the degree of

Master of Arts

Grand Forks, North Dakota December 2021

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This thesis, submitted by John Samson in partial fulfillment of the requirements for the Degree of Master of Arts from the University of North Dakota, has been read by the Faculty Advisory Committee under whom the work has been done and is hereby approved.

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John Samson December 8, 2021

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ABBREVIATIONS

| ар | analogous part | | |
|------|--|--|--|
| ASL | American Sign Language | | |
| asp | analogous shape or position | | |
| bor | borrowing | | |
| bp | body part | | |
| eap | experienced at the part | | |
| fop | function of the part | | |
| ges | gesture | | |
| HSKL | Hong Kong Sign Language | | |
| HS | handshape | | |
| iup | item used at part | | |
| KSL | Korean Sign Language | | |
| loc | location | | |
| lsa | language-specific association | | |
| LSF | Langue des Signes Française (French Sign Language) | | |
| qop | quality of part | | |
| ma | mimetic action | | |
| mov | movement | | |
| ndh | non-dominant hand | | |
| nmm | non-manual markers | | |
| ori | palm orientation | | |

ABSTRACT

In this thesis, I show that universally, there is a strong tendency for signs located on the body to have an iconic or non-arbitrary motivation, especially in their original form. I analyze sign language dictionaries from four unrelated sign languages and establish an iconic or non-arbitrary link between the form of the signs and their meaning, and classify those links according to 8 categories of body location iconicity and 3 categories of non-arbitrariness. The strength of this tendency depends on the percentage of signs that are shown to have an iconic or non-arbitrary link. For the data analyzed here this percentage is between 92.0-98.1%. In addition to this I provide helpful principles for analyzing the iconicity and etymology of signs; I provide a framework for analyzing iconicity and make a new distinction between it and a type of non-arbitrariness which I am calling "form to form resemblance."

CHAPTER 1 INTRODUCTION

In this thesis, I show that universally, there is a strong tendency for signs located on the body to have an iconic or non-arbitrary motivation, especially in their original form. I analyze sign language dictionaries from four unrelated sign languages and establish an iconic or nonarbitrary link between the form of the signs and their meaning, and classify those links according to 8 categories of body location iconicity and 3 categories of non-arbitrariness. The strength of this tendency depends on the percentage of signs that are shown to have an iconic or non-arbitrary link. For the data analyzed here this percentage is between 92.0-98.1%. In addition to this I provide helpful principles for analyzing the iconicity and etymology of signs; I provide a framework for analyzing iconicity and make a new distinction between it and a type of non-arbitrariness which I am calling "form to form resemblance."

1.1 Iconicity in Signed Languages

In the past, arbitrariness has been considered the hallmark of the lexical unit. Saussure wrote of word-formation saying, "Meaningless phonemes combined to form meaningful morphemes or words" (de Saussure 1916). However, the strong form of this view does not still hold because not all phonemes are meaningless. In spoken languages there are sub-lexical units that have been found to have an iconic form-meaning correspondence (Meir and Tkachman 2018). In sign languages iconic form-meaning correspondence is pervasive. It is more common in sign languages than spoken language because the visual-gestural modality is "richer in iconic devices" (Meir and Tkachman 2018).

Iconicity is found across sign languages. It is defined by Meir and Tkachman (2018) as "a relationship of resemblance or similarity between the two aspects of a sign: its form and its

meaning. An iconic sign is one whose form resembles its meaning in some way." Johnston and Schembri (2007:3) defines iconic symbols simply: "some aspect of [a] symbol's form resembles some aspect of its meaning." The common theme here is a resemblance between form and meaning.

Some signs have obvious iconicity. The sign BIRD in ASL pictured below in Figure 1 has the thumb and index finger of the signer located at the mouth opening and closing in a way that clearly resembles a bird's beak.

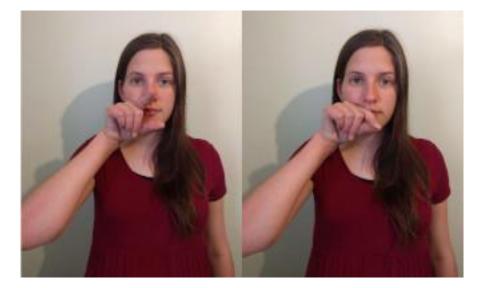


Figure 1: BIRD (ASL)¹

¹ Jennifer Samson, the ASL language model, is a hearing sister of a Deaf adult and has been raised bilingually using both English and ASL in the home since age 5.



Figure 2: GIRL (ASL)

Other signs have an iconicity that is less clear. For the ASL sign GIRL in Figure 2 above, the signer's thumb traces a line from the signer's cheek to their chin. Without a knowledge of ASL or the history of ASL, it would be difficult to see the iconicity of this sign. However, we do know from historical records that the sign GIRL is picturing a string on the bonnets that women used to wear.

With the sign GIRL there is an important point that must be clarified: just because a sign is iconic, doesn't mean that a person automatically understands the meaning of the sign, and it also doesn't mean the signer recognizes the iconic origin of the sign. It is unlikely that a person seeing the ASL sign GIRL for the first time would recognize its meaning, it has a particularly opaque iconicity. Furthermore, even if a signer is familiar with the sign GIRL, they may not be able to recognize its iconic origin picturing a bonnet string. Nevertheless the sign is still iconic.

The research of iconicity within sign languages has had an interesting history. Much of the reason people previously did not believe signed languages were true languages is due in part to their pervasive iconicity. Sign languages were considered a form of pantomime. As such, early researchers downplayed the role of iconicity in order to argue that sign languages were true languages. With signed languages now well established as true languages within the linguistic

community, it is not necessary to downplay iconicity. Quite the opposite actually, iconicity is in vogue in both spoken and signed language research.

One thing, however, must be addressed before talking further about iconicity in signed languages, and that is the topic of the parameters that are the phonetic building-blocks of every sign.

1.2 Sign Language Parameters

There are five phonological categories, called parameters, that combine to make up every sign: handshape, orientation, location, movement, and non-manual markers. The handshape refers to the hand configuration used to make a sign. Signs can be either onehanded or two-handed. The orientation refers to the orientation of the hand such as palm facing up or down. The orientation can also be relative such as toward or away from another location. The location of a sign will be either on the body or in neutral signing space in front of the body and a single sign can have up to two locations. The movement can be a path movement between two locations, a hand-internal movement such as opening and closing of the hand, or a change of orientation. Non-manual markers is a bit of a drip pan category for everything else. It includes mouth movements (such as sticking the tongue out), head tilt, body shift, eye-contact, raising and lowering the eyebrows, and others.

1.3 History of Iconicity and Signed Languages

With this in mind, we can go back to the topic of the history of iconicity. The following are some of the important works for the understanding iconicity within sign languages, especially as it pertains to this thesis.

1.3.1 Mark Mandel 1977: Iconic Devices in American Sign Language

Mark Mandel is one of the first to write on the iconicity of signed languages. He goes against some of the other researchers in sign languages of his time who "do not consider iconicity a significant factor in ASL, at least at the lexical level" (1977:61). He notes the continuum of iconicity vs conventionality in signs, the importance of historical iconicity within lexical signs, and also notes a metonymic relationship (where a part of something is used to refer to the whole thing) between what he calls the base of the sign (what I will refer to as an iconic base) and its meaning. His definition of base is "The thing (or action, etc.) which is actually pictured or presented in an icon, not necessarily identical with the referent" (Mandel 1977, 93). He gives the example of OLD, which traces the outline of a beard. The beard is the base while 'old' is the meaning. He mentions that "when the base is not identical to the referent, it represents the referent metonymically" (Mandel 1977:93).² He notes three types of relationships between the sign and the base: presentation, depiction, and mime. Presentation involves simply doing the action of the base (miming falls into this category), or if it's an object, simply indexing (pointing to) it. The indexical presentation is used mostly for body parts. The other two relationships are depiction: where the sign pictures the base, and mime which presents a "token of action." He uses the sign MONKEY (which pictures a monkey scratching its sides) as a type of mime where the agent is not human. These three relationships have some similarities with how I relate the form to its iconic base in section 2.2. Mandel's work surveys many aspects of sign language and shows some of the common iconic devices at every level of sign language rather than focusing in depth on any one aspect.

² This part I disagree with because there can also be a metaphorical relationship between the base and the meaning. The ASL sign STUBBORN is related to the sign DONKEY. The iconic base for both signs depicts the ear of a donkey, which is a metonymic relationship for DONKEY, but for STUBBORN, an extra step is needed to relate the animal to the character of stubbornness, and that is a metaphorical relationship. This also comes up in section 6.2.1 for HKSL with the homonyms MATERNAL GRANDFATHER and NOSY.

1.3.2 Klima and Bellugi 1979: The Signs of Language

One of the most important of the earlier works on sign language is Klima and Bellugi's (1979) *The Signs of Language*. Since the main obstacle for early linguists was actually demonstrating that signed languages were real languages instead of a complex system of pantomime, necessarily, much of their work had to focus on the differences between pantomime and signed languages. As such, much of the iconicity of sign languages was downplayed. In Klima and Bellugi (1979), they emphasize the conventionality and grammaticality of ASL while still affirming the importance and productivity of iconicity.

Within the book, Susan Fischer contributes a chapter on the historical changes in ASL from iconic to arbitrary. This information is necessary for understanding the regular patterns that signs tend to undergo over time shifting from iconic to arbitrary. This deiconization of signs is not random, but is the result of regular phonological changes over time. She mentions that signs tend to move from the edges of neutral signing space to the middle. Also, signs on the body tend to change along the axis of bilateral symmetry that divides the body from head to waist centered at the hollow of the neck. This divides the body into ipsilateral and contralateral sides (that is, the same side and opposite side of the body as the dominant hand). Thus, signs starting at the center of the face tend to get displaced to the periphery over time. At the same time, for signs on the torso, they tend to move from the periphery (such as the heart location) to the center of the chest.³ All of these processes can result in deiconization.

1.3.3 Sarah Taub 2001: Language from the Body

In the past 20 years or so, sign language linguists have been much more open to the research of iconicity within sign languages, now that sign languages are firmly established as being true languages within the broader linguistic community. One of the most important

³ It should be emphasized that these are tendencies, not hard and fast rules.

works on iconicity within signed languages is Sarah Taub's (2001) *Language From the Body*. Within Taub's book, she looks at metaphor and iconicity from the perspective of cognitive linguistics.

Few if any works on iconicity in signed languages lack Sarah Taub's work in their reference list. There are many things that could be discussed about it, but here I'll focus on her analogue-building model of linguistic iconicity.

Taub's analogue-building model in Figure 3 below represents the creation of a new iconic item, not the mental process for each time an iconic sign is used.

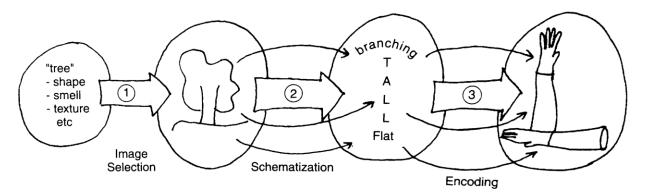


Figure 3: Taub's Analogue-Building Model⁴

Taub describes her model saying,

[The model] can be summarized as following: To create an iconic item, one *selects* an image to represent, modifies or *schematizes* that image so that it is representable by the language, and chooses appropriate forms to show or *encode* each representable part of the image. Moreover, when modifying the image or "translating" it into linguistic form, one makes sure that the new

⁴ This image is taken Language from the Body by Sarah Taub (2001:44). It is copyrighted and is reproduced with permission of Cambridge University Press through PLSclear.

image preserves the relevant physical structure of the previous stage. (Taub 2001:44)

The image of the tree in the above figure 3, which Taub simply refers to as the "image," would be what Mandel calls the "base" and what I'm calling an "iconic base." In this case, there is not a metonymic relationship between the iconic base and the meaning of the sign, rather the iconic base simply resembles (or depicts) the meaning.

The third circle, with the schematization of the image, largely corresponds to what I describe in section 3.1 as the category of iconicity. Since this thesis deals with location rather than handshape, I will only comment on the location within the schematization here. What Taub refers to as the schematization of "flat," I refer to as "analogous shape or position: surface" in my data.⁵

One of the most influential aspects of Taub's work is the idea of the double-mapped metaphor. The idea is that many signs are simply iconic, but other signs require a further step of metaphorical mapping to relate the iconic base to the meaning. She does an excellent job of detailing this in chapter 6 of *Language from the Body* (Taub 2001:94-113). There is no need to repeat her work. In my data, I do note when there is a metaphorical connection between the iconic base and the meaning in a sign, but I do not go into detail about the nature of the metaphor.

1.3.4 Ronnie Wilbur 2008: Event Visibility Hypothesis

This thesis is largely inspired by Ronnie Wilbur's work. The idea that much of the universal grammar of signed languages can be found at the level of the individual parameter comes from her work on the motion parameter for the Event Visibility Hypothesis (EVH). In

⁵ Technically, the sign TREE would be excluded from my data since it is located at the non-dominant hand. However, this use of the non-dominant hand is equivalent to how the forearm is used as a location.

her work on the EVH, Wilbur proposes six morphemes that seem to be universal sign language morphemes rather than limited to ASL. The six morphemes are: EndState, InitialState, Extent, Path, Extra, and USET (Unchanging State in Elapsing Time).

The EVH makes use of Brentari's Prosodic Model (1998), specifically prosodic features of a sign that change during sign formation. Two timing slots (x-slots) are used to account for the change of the prosodic features. The first timing slot is for the initial specification and the second is to show the final specification. An example of this is the ASL sign THROW, where the signer's fist starts closed and ends opened.

Wilbur observes that (2010:370) homogenous events (States and Activities) have the same features for both x-slots, while heterogenous events (Achievements and Accomplishments) have different features for the x-slots. Telic events all have a specific prosodic feature: a rapid deceleration to a stop. This morpheme is called EndState. Unsurprisingly, the sign STOP is a good example of this: the dominant hand starts above the non-dominant hand and moves down forcefully to come to a stop on the non-dominant hand. This morpheme works with classifiers as well: if an entity classifier is moving on a path and rapidly decelerates to a stop, that means the entity came to a stop, which is a telic event (specifically an accomplishment).

Four of the morphemes posited by Wilbur relate to situations, two of which correlate to state: InitialState and EndState, and two which correlate to process: Extent and Path. EndState we've already covered, and InitialState is the reverse: a rapid acceleration from an initial location. Extent and Path are both phonologically realized as movement along a path, but Extent corresponds to the duration of the event, while Path corresponds to the distance of spatial events (Wilbur 2008:220).

The two other morphemes posited are adverbial modifiers. The first one is Extra, which modifies the meaning and the movement of both Extent and Path. The movement is changed to an arc, and the meaning is changed to mean "more of." So for Extent this would mean a longer time, and for Path this would be a farther distance. The second adverbial morpheme is Unchanging State in Elapsing Time or USET. It indicate that a change continues unchanged

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over time. It is indicated by a trilled movement. It only has a temporal meaning. An example of this is the finger-wiggling in the ASL sign WAIT.

In Wilbur's work it is shown that much of the movement in signs can be correlated to a consistent meaning across sign languages. In this work I am trying to show something similar for the location parameter.

1.3.5 Other Literature

The article "Re-thinking Sign Language Verb Classes: Body as Subject" by Meir et al. (2006) argues that the main function of the body location in verb forms is to represent the subject.⁶ They note that this explains the prevalence of object agreement over subject agreement verbs. In the three types of verbs (plain, agreement, and spatial) put forth by Padden (1988), Meir et al. reclassify the use of the body for plain verbs as corresponding to the subject, for agreement verbs as corresponding to the 1st person, and spatial verbs as a special reference point or not involved.

The article "Location, Location, Location" by Cates et al. (2013) has a good statistical analysis of the relative levels of contribution to the iconicity of a sign for the parameters: handshape, location, and movement. They find that location is far and away the most iconic parameter and give a chart of some of the semantic neighborhoods for each body location.

While much work has been done on iconicity, no one has yet undertaken to create a comprehensive list of the form-meaning mappings across sign languages for each of the parameters. I hope that this thesis provides a good foundation for the location parameter.

⁶ As a joke, you can sign the ASL sign THINK (or other body-anchored verbs) on someone else to mean "you think," though this would never be done in normal conversation.

CHAPTER 2 METHODOLOGY

2.1 The Dictionary Data Corpus

The data for this thesis comes from four sign languages: American Sign Language (ASL), Auslan (Australian Sign Language), Korean Sign Language (KSL), and Hong Kong Sign Language (HKSL). These languages have been chosen because they are genetically unrelated, are culturally distinct from one another, and have large video dictionaries available. It is necessary to have them unrelated so that they can be considered a representative sample of sign languages universally, not just of a certain sign language family. It is important to have them culturally distinct because different cultures have different values and meanings that they associate metaphorically with different body parts. For example, in ASL the location of the chest can express the concept of the self, while KSL can also use the nose to refer to the self.

One dictionary is used for each language. For ASL, the Gallaudet Dictionary of American Sign Language (Valli 2006) is used. It has 2986 entries. For Auslan, the Auslan Signbank is used. It has 7794 entries. It is adapted from Trevor Johnston's previous Signs of Australia: A new dictionary of Auslan. (Johnston 1998). The Korean Sign Language dictionary is managed by the National Institute of Korean Language along with the Korean Deaf Association. It has about 14,000 entries. The HKSL dictionary used is the Hong Kong Sign Language Browser. It was established by the Centre for Sign Language Linguistics and Deaf Studies of the Department of Linguistics and Modern Languages at The Chinese University of Hong Kong. There are currently 5482 entries in the dictionary, although many of these are variants. The dictionary provides English as well as Chinese glosses.

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I limited the sample size for each dictionary roughly to a minimum of 500 signs and a maximum of 1000. This reduced the amount of work required for the analysis. Any new signs added to a dictionary after my initial sample selection were not included in the analysis. For the selection of data, the Auslan and HKSL dictionaries' word lists were searched alphabetically by the sign's English gloss. I examined approximately 200 signs from each letter of the alphabet with the goal of getting an approximately equal number of signs from each letter, until a minimum of 500 signs on the body were found. This should be considered sufficiently random, since there is not much of a pattern relating the alphabetical order of the English gloss to the location of the sign.⁷ The KSL dictionary was searched by location, but not by English alphabetical order.⁸ As much as possible, an approximately equal number of signs were taken from each location.

2.2 Located at the Body

Before anything about the iconicity of body locations can be established, we must first figure out what we mean by body locations and when a sign is considered to be at a specific location or not.

2.2.1 Significant Proximity

Every sign must be signed at a location. A sign can be located either in neutral signing space or "on the body", but this notion must be made precise. For a sign to be located on the body, it must be in contact with, or in 'significant proximity' (Johnston 1989:102) to the body. For

⁷ There were some minor patterns of locations tied to English gloss such as the "au" section had many signs on the ear, but the samples from each of the locations was roughly as expected.

⁸ There were some issues with this method. Relatively fewer signs are located at the chest in my KSL data because the dictionary categorized neutral signing space and signs located on the chest together. To remedy this I doubled the quantity of signs I searched through, but that still resulted in a reduced representation from the chest location.

example, the ASL sign FACE does not touch the face, however since the index finger traces a circle around the face, the sign is in significant proximity to the face. Neutral signing space is the empty space in front of the signer that is not in significant proximity to the body. Typically signs in neutral space are in front of the signer at chest level. However, some signs are higher or lower than that. The signs HEAVEN, SKY, and STARS in ASL are signed in neutral space at or above head level, while SOCKS and HELL are signed in neutral space closer to waist level.⁹

There is an inherent difficulty in determining whether a sign is located in significant proximity to a body part versus simply being in neutral signing space, but other phonetic parameters can help to make this distinction. A sign with a movement and orientation towards the body (such as FACE) is more likely to be referencing the body than a sign without movement and orientation towards the body (such as STARS). However, there are exceptions. The ASL sign that can be glossed as FASCINATING (figure 4 below) pictures the signer's face (or eyes) being drawn toward the thing they are fascinated by. The orientation is not toward the face and the movement is away from the face, but the sign seems to clearly reference the face. In this case the semantics clearly are referencing a body location. However, there is likely to remain some amount of subjectivity in the distinction between signs in significant proximity with the body and signs in neutral space, and plausibility of an iconic relationship is the ultimate deciding factor.

⁹ It seems likely that signs in the higher and lower levels of the neutral signing space would similarly also have a strong tendency for iconic motivation. If this were true it would mean that all signs outside of the default neutral signing space have a strong tendency for iconic motivation. The five examples given here seem to have clear iconic motivation, but due to the need to limit the breadth of this research, I have not included them.



Figure 4: FASCINATING (ASL)

2.2.2 Distinguishing Body Locations

In order to analyze iconicity of body locations, it is important to distinguish locations from each other, but this too can be difficult. Technically, there are near infinite locations on the body depending on how precise the measurement is. Generally though, signs on the body are clustered around a few distinct locations. Every sign language linguist divides and subdivides the body in different ways, each for their own purposes.

Johnston (1989) divides the body into 18 major locations with subdivisions for a total of 48 distinct locations. His major locations are: whole of face, top of head, upper face, eye, nose, ear, cheek, mouth, chin, under chin, neck, upper trunk, chest, lower trunk, arm, elbow, pronated arm, supinated arm. He uses this large quantity of locations for the purpose of distinguishing the minimal pairs in Auslan.

In contrast, Sandler and Lillo-Martin (2006) distinguish relatively few locations. They have four major locations: head, trunk, non-dominant hand, and arm, and seven setting features: hi, lo, ipsilateral, contralateral, proximal, distal, contact. With this system they are able to describe every location on the body with a combination of these locations and settings. The ASL sign HEAD (pictured below in Figure 5) in their system would be located at the ipsilateral side of the head with hi and lo contact.



Figure 5: HEAD (ASL)¹⁰

This system cuts down on the need to posit complicated locations and settings and fits into their established Hand Tier model of phonological description.

In the article "Location, Location, Location", Cates et al. (2013) list body locations based on the "semantic neighborhoods" found in their data. They note that a location such as the shoulder is not limited to the physical properties of the shoulder alone, but also metaphorical uses of the location as well. The shoulder location can be used simply to refer to the shoulders or things worn on the shoulder, but it can also be used to refer to the concept of responsibility. This is because of the metaphor that responsibility is a burden borne on the shoulders. They use twelve major locations for semantic neighborhoods in ASL: head, eyes, nose, mouth, ears, neck, shoulders, trunk, heart, hands, non-dominant hand, and legs.

Each of these lists of body location are designed for different analytic purposes. The purpose of this thesis is to show that universally, there is a strong tendency for signs located on the body to have an iconic motivation, especially in their historical forms. Because I am looking for the iconic motivation of the body locations, which is a semantic concept, my list of body locations has similarities to the one by Cates et al. (2013). However, their list was a bit

¹⁰ The chronological sequence of the sign is represented in the pictures from left to right.

too short for my purposes. For example, where they had one location of torso, I found many signs indicating anger would be located specifically at the stomach and many signs related to breathing would be located at the chest. So the list I use conceptually falls between theirs and Johnston's more extensive one. My list isn't as exhaustive as Johnston's because I didn't need that many subcategories to describe my data: I was not looking to establish minimal pairs, and his list would over-divide semantically similar locations. The list by Sandler and Lillo-Martin is good for the purposes they made it for, but it would obscure the iconicity of sight being tied to the eye by naming the eye location as the hi, lo, (i.e. in the middle) ipsilateral side of the head.

2.2.3 The Locations used in this Thesis

In this thesis I have chosen a list of 18 locations and 6 sublocations, based in part on phonological distinctness and in part on the patterns of iconicity in the corpus. In my data (located in the appendices), if more detail is required, after the main location, I mention relative position. An entry such as "eye, below" is used if the major location was the eye, but the sign is below it, or "eye, side" is used if the location is specifically at the side of the eye. These locations are generally ordered from the top of the body downward.

| Location | Examples | |
|--------------------|-------------------------------|--|
| Head | | |
| - Face | ASL: FACE, BEAUTY | Head - Top Forehead Head - Side Eyes |
| - Side | HKSL: HUSBAND | Head - Face Nose Ears |
| - Top | ASL: BALD | Neck Cheek Mouth |
| - Back | ASL: BACK-OF- MIND | Shoulder Chin Arm - Upper Arm, Chest |
| Forehead | ASL: THINK, INFORM | Arm - Forearm Elbow |
| | Auslan: FAMILIAR, WORRY | Wrist |
| Eyes ¹¹ | KSL: 며칠 'a few days' | |
| Ears | HKSL: DAUGHTER | |
| Nose | KSL: 좋다 'to like' | |
| Cheek | ASL: CANDY | |
| Mouth | HKSL: CIGAR | |
| Chin | HKSL: WOOL | |
| Neck | KSL: 체험 'experience' | CONTRACTOR OF THE OWNER OWNE |
| Shoulder | KSL: 등 'rank' | Figure 6: Body Locations |
| Chest | Auslan: ASTHMA | |
| Heart | ASL: BADGE | |
| Arm | | |
| - Upper arm | Auslan: SYRINGE | |
| - Forearm | Auslan: TOAD | |
| Elbow | ASL: PUNISH | |
| Wrist | HKSL: CUT/SCRATCH | |
| Stomach | KSL: 설사 'diarrhea' | |
| Waist | ASL: NAVY | |
| Leg | Auslan: LEG | |

Table 1: Body Locations List

¹¹ The location of the eyes does not include the nose despite the circle overlapping that location.

The first major location is the head, the sublocations of the head are the face, side, top, back. After analyzing the data, it became clear that while there is a lot of overlap between the semantic neighborhoods at the top and side of the head, often referring to cognition, hair, or head-gear, the location of the face generally was associated with different semantic concepts such as beauty, appearance, or sight.

The forehead/temple is its own location separate from the head because it is one of the most common categories across the sign languages and tends to have a more limited semantic range than the rest of the head. This location is the main location for cognition across the four sign languages.

The location of the eyes is the main location for the category of eyesight. Almost all signs at the eyes have to do with eyesight or something used or worn at the eyes. It is difficult to phonetically differentiate signs that are in front of the eyes with signs that are in front of the face. Generally, if it is in front of the face and it has to do with sight, it will go in the "eyes" category, though there are exceptions. One thing worth noting is that very few signs are directly at the eye, likely due to concern for poking oneself in the eye while signing. Often signs that are associated with sight are at the upper cheekbone. This location can be confused with the cheek, but across the four sign languages it consistently patterns after the eyes rather than the cheeks.¹²

The location of the ears is almost exclusively used for signs related to hearing, or things you wear on your ear (such as earrings). This location can be hard to distinguish from the side of the head.

¹² I have been learning Kenyan Sign Language recently. Interestingly, my language teacher actually touched his eyelids when signing EYES. This did not happen in any of the sign languages looked at for this thesis.

The nose location is used for a variety of meanings. The location is used for smell, of course, but the other uses varied widely from language to language. In ASL the nose is used for humor and generally negative signs. In Auslan it is used for humor, but also for luck. In HKSL it is used for some negative signs, though that could be influence from other signs/cultures. In KSL the nose can be used to refer to the self, things that are good, dislike, and things that are dirty.

The cheek is often used for eating, specifically the image of chewing. It is also the location of things used or worn and is often associated with color, or facial hair.

The location of the mouth is one of the most common body locations for signs. It is usually used for signs related to eating or speaking.

The location of the chin almost always overlaps in categories with the location of the mouth. Semantically, it might be appropriate to consider them as two parts of the same location most of the time. However, the chin does have some things that differentiate it from the mouth. Signs related to beards are at the chin (or cheek) rather than the mouth. Also there are signs that are located below the chin, these are consistently used differently than the mouth location.

The neck is commonly used for thirst, desire, breathing, and speaking. There is a lot of semantic overlap between the neck and the mouth.

The shoulder isn't the most common location, but it is often associated with rank or responsibility.

The (upper) chest location is one of the more common locations for signs across the different languages. Its main purpose seems to be to refer to the self. Other things commonly located there are emotions, health, and clothing.

The location of the heart (the contralateral side of the chest) is interesting. It does not meaningfully occur in every sign language. In my data, KSL only has 2 signs located at the heart, and that is because that's where nametags go. ASL, on the other hand, has many signs at

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the heart, especially related to emotions or personality. This location seems to be more language and culture-specific than some other locations.

The location of the arm is subdivided into upper arm and forearm. Though the sublocations are distinct there was often overlap between them. Signs for power are a bit more typically located at the upper arm at the bicep, but they can also be located at the forearm. The forearm is commonly used to refer to the length of something or a flat surface.

The location of the elbow is another unusual location. The main language it occurs in is ASL, often its use overlaps with the use of the forearm. In the other sign languages in my data it isn't used as a distinct location.

The location of the wrist is often used for time in association to watches. It is also used for other things worn at the wrist or for taking the pulse. This was not a very common location except when used in reference to time.

The stomach has overlap with the chest location. Often emotions are associated here, but they are more likely to be associated with anger or disgust. Interestingly, KSL uses this location as the "heart" this location is used for conscience and intuition in KSL.

The leg (upper thigh) location was rather infrequent. It is almost always used to refer to the body part itself or something worn there.

Among all the body locations, the non-dominant hand (NDH) is one of the most commonly used for signs. However, it functions differently than the other locations. It can change handshape and orientation which allows it to represent many different iconic motivations, because of this, it is not included in this analysis. An analysis of the iconicity of the nondominant hand would likely fit better in an analysis of the iconicity of handshape.¹³

¹³ That being said, there does seem to be a good amount of semantic overlap between the flat handshape NDH and the forearm.

Different linguists are likely to use different body location categories based on what they are trying to describe. These locations are helpful to see the various semantic categories across different sign languages. Some sign languages will include more categories (such as the ipsilateral chest in Kenyan Sign Language), and some will include fewer (HKSL didn't have any signs at the elbow). There is no one list of locations that fits all sign languages, but this list is sufficient to describe my data.

CHAPTER 3 OVERARCHING THEMES

3.1 Categories of Body Location Iconicity

In the analysis of the four sign languages, certain basic cross-linguistic patterns of iconicity emerged. The majority of signs located on the body can be categorized in one of these 12 categories. The categories are as follows: the body part (bp) itself, an analogous body part (ap), the basic function of that body part (fop), a quality of that body part (qop), an item typically used at that body part (iup), an analogous shape or position (asp), something experienced at the body part (eap), mimetic action (ma), a language-specific association (lsa), borrowed from another language (bor), gesture (ges), and unknown (??). Table 2 below gives a summary of the different categories.

| Body Part | bp | A body part at that location. Eg.: forehead, eyebrows, tongue, cheek, heart, etc. |
|-----------------------------------|-----|---|
| Analogous Part | ap | One body part for another. Eg.: forehead for animal forehead, arm for leg. |
| Function of Part | fop | Typical functions of that body part. Eg.: eating, speaking, thinking, smelling, etc. |
| Item used at Part | iup | Items that are typically used at that location. Eg. wearables, phones, whistles, etc. |
| Quality of Part | qop | Quality or property of the body part. Eg: red lips, hard chin, oily face, rubbery skin. |
| Analogous Shape or Position | asp | The shape or position of the body part. Eg: horizontal forearm for a surface, circular face for a circular clockface, a location on the body for the "center" position on the timeline. |
| Experienced at Part | eap | Something experienced at the body part. Eg: illness, surgery, pain. |
| Mimetic Action | ma | Imitating an action that is not standard use of the location. Eg: monkey scratching its sides, pulling a bus cord by the side of the head to stop. |

Table 2: Categories of Body Location Iconicity

| Language- specific Association | lsa | These are non-iconic signs that are derived from an iconic original. Eg.: ASL HUSBAND, NEPHEW, and UNCLE from the original BOY. |
|--------------------------------------|-----|---|
| Borrowed | bor | A sign that borrows from another sign language, or an orthographic form or lip-read form of a spoken language word. Eg.: initialized signs, CABBAGE/GARBAGE, or an ASL sign in another sign language. |
| Gesture | ges | A typical gesture borrowed from the hearing culture. The meaning should be transparent. Eg.: salute for hello. |
| Unknown Iconicity | ?? | Signs with unknown iconicity. |

The most basic iconic use for location is to have the location refer to itself. Across sign languages, one expects the sign for ARM to generally gesture at the arm in some way. The sign for EYES will likely point toward the eyes in some way, and the sign for MOUTH will probably point to the mouth in some way. The main variation is which handshape and movement are used. I also found that this category of sign is also the most likely to extend past a sign language's normal phonological limits for location. For example, in Auslan, the only sign I found at the (upper) leg location is the sign LEG. In HKSL, the only signs at the eyebrow and at the back were the signs EYEBROW and BACK.

The next category is that of the analogous (body) part (ap). This is where one body part is used to picture another body part. This is often used for body parts that would be inconvenient or inappropriate to simply point to. For example, one of the signs for PENIS in ASL is located at the nose. This is likely a location shift by euphemism. The non-dominant hand can be used to represent to the legs, feet, and toes. Across sign languages body parts are commonly used to refer to the analogous body parts of animals. In KSL the sign PIG uses the nose location to picture a pig's snout, and in ASL the sign OWL uses the eyes to picture an owl's eyes.

The third general category of iconicity that occurred across all four sign languages is that of the basic function of the part (fop). Simply put, this is any action closely associated with the body part. For the forehead location, *cognition* is the basic function, since it is closely associated with the brain. The eyes are closely associated with *seeing* and *crying*; the ears with *hearing*; the nose with *smelling*, *breathing*, *sneezing*, and *running*; the cheek with *blushing*; the mouth with *eating, drinking* and *speaking*, the neck with *swallowing* and *thirst*; the chest with feeling *emotion, breathing,* and *coughing*; the stomach is associated with *hunger*.

Another common category is items typically used at a certain body part (iup). The most common example of this category is wearable items, but the it also includes non-wearable things such as phones, microphones, smoking pipes, and x-ray machines.

The next category is quality of the body part (qop). Certain body parts have distinct inherent qualities that can be used iconically. For ASL, Auslan, and KSL the sign RED is located on the mouth because lips are typically red.

The category "analogous shape or position" (asp) is used for signs that are located at the body part because of its physical shape or 3 dimensional position rather than as a body part. The forearm is commonly used in this way to refer to a flat surface, or a long object. In Auslan the sign WORM is located at the forearm which is picturing the surface that the worm is crawling on. The head or the face is sometimes used to picture round objects. I believe the ASL sign LIGHT, which has the 8 handshape flicking upward at the chin, is picturing the filament of an incandescent lightbulb flicking on. It is located at the chin because the head is the shape of a lightbulb, and that is roughly where the filament would be located.¹⁴

The next category includes things that happen or are experienced at a certain body part (eap). A lot of medical signs fall into this category. For example, pain can be experienced anywhere on the body, so the sign PAIN in ASL can likewise be signed at any body part, and it refers to pain at that location. Surgery is another example of something that happens to body parts. In ASL you can move the sign SURGERY to any location on the body to show where the surgery was performed.

¹⁴ This sign is not found in Long (1918) or Michaels (1923) but is simply an educated guess that I believe fits the parameters quite well.

The category of mimetic action (ma) is similar to function of part, but is used for non-basic functions. In the HKSL sign WARM, the signer rubs their both their upper arms in the same way people tend to do when they are cold and trying to warm themselves up. This would not be considered a basic function of the arms. Another example from HKSL is BUS STOP which is located at the side of the head to mimic someone pulling the cord on the bus. This is not a function of the side of the head at all, so it can't be a basic function of the part.

One of the more difficult categories is language-specific association (lsa). There are groups or families of signs that are all formed by analogy to an original. In ASL all the masculine and feminine signs are formed by analogy to the signs BOY and GIRL respectively, which historically more generally referred to male and female.¹⁵ The source signs are iconic, but the derived signs are not iconic.¹⁶ At the same time they are also not arbitrary. The reason this category is called "language-specific" is that this relationship between form and meaning only works within its own language. Other sign languages are unlikely to associate these meanings to the same location.

The next category is borrowing (bor). Every language borrows from other languages, sign languages are no exception. Sign languages can borrow from other sign languages. Often the names of countries are borrowed from other sign language, GERMANY in ASL is borrowed from German Sign Language (DGS). Sign languages can also borrow from spoken languages. This is commonly seen when Deaf people simultaneously sign a word and mouth the equivalent word in their country's native spoken language. Sign languages can also borrow from the written form of languages. This is often seen in the handshape parameter of initialized ASL signs. The sign FAMILY is related to the sign GROUP, but with the F-handshape instead. In HKSL this can

¹⁵ See section 4.2.2 for a more in-depth discussion of the gender signs in ASL.

¹⁶ This is actually how to determine the original sign vs the derived signs. The original one is fully iconic and the derived signs are not iconic, but generally have one or more parameters that resemble the form of the original. This is the location parameter for the signs derived from BOY and GIRL.

be seen in the location parameter for the sign MALL which is located at the mouth because the Chinese characters for the word mall include the mouth character.

If a sign is borrowed from another sign language it can always be considered to be a nonarbitrary association between form and meaning, and sometimes it can be considered iconic. Often the sign will likely be iconic in its source language, and it may still be iconic in the target language, but the association between form and meaning can often be opaque in the target language. If a sign is borrowed from a spoken language, it will generally be associated to the lipread or orthographic form of the word in the source language, but this may not be tied to the meaning in the target language. In ASL, the sign CABBAGE and GARBAGE are homonyms because they are indistinguishable in lipreading from English, but the form of the sign GARBAGE is not associated with its own meaning but it is associated with the meaning of CABBAGE.

The category of gesture (ges) can be considered a type of borrowing. The gesture category is reserved for commonly understood gestures within the society that even hearing people use and understand. These signs can be considered to be borrowed from the hearing gesture system of the culture. Examples of this are the thumbs-up to mean good, or the sign HELLO in ASL is located at the forehead because it is a salute gesture. Obscene gestures would also fall into this category, but those aren't typically put in dictionaries so they are underrepresented in my data.

The last category, unknown (??), isn't a true category. It's simply a placeholder category for signs that I couldn't figure out any association between their location and their meaning. These signs are considered non-iconic for this thesis.

Of these 12 categories, 8 of them are iconic, 3 are non-arbitrary and 1 is unknown iconicity and counted as non-iconic. The 8 iconic categories are: body part (bp), analogous part (ap), function of the part (fop), item used at the part (iup), quality of the part (qop), analogous shape or position (asp), experienced at the part (eap), and mimetic action (ma). For all of these categories, the form resembles the meaning of the sign, though often the iconic base must be associated with the meaning by metonymy or metaphor.

The three categories of iconicity that are non-arbitrary are gesture (ges), language-specific association (lsa), and borrowed (bor). In these categories the form of the sign does not necessarily resemble the meaning, however, the forms are not arbitrarily associated with their meanings. For the signs in these categories, they relate to their meaning in a different way. The form of the signs resembles another linguistic form. For gesture, the form of the sign resembles a gesture commonly used within the broader culture. For language-specific association, the form of the (derived) sign resembles the form of an original iconic sign. For the borrowed signs category, the form of the sign resembles the form of the foreign language word. If it is borrowed from an orthographic form, the sign resembles the orthographic form. If it is borrowed from a lipread form, the sign resembles the lipread form of the spoken word. I am calling these three categories "form to form resemblance", which is discussed further in section 8.3.2.

3.1.1 Notes about the Categories

These categories of iconicity are specifically for the location parameter for signs on the body. Some of them apply also to other sign language parameters also (as indicated by some of the examples above), but those other parameters are likely to have additional categories.

Some signs can be analyzed as being members of one category or another. The ASL sign SMOKING, which is signed at the mouth could be analyzed in different ways. It could be fop: smoking, where smoking is considered a (somewhat) basic function of the mouth, or it could be ma: smoking because the sign mimics the action of smoking. Other signs fall into two categories simultaneously. An example of this is the ASL sign HOSE 'nylon stocking', which is signed at the forearm. It should be considered both ap: leg and iup: wearable because the forearm is used to reference the leg and also references clothing worn on the leg.

3.1.2 Compounds and Iconicity

Compound signs can be a source of difficulty. For each of the sign languages looked at here, the individual signs that make up the compound may be iconic, but that iconicity may be

seemingly non-sensical when applied to the compound as a whole. In KSL the sign HONEY is a compound of BEE + SWEET. The sign BEE depicts a bug stinging one's cheek and then slapping it, and the sign SWEET moves in a circular motion in front of the mouth indicating taste or something that is consumable. The second part of the compound's iconicity transfers well to HONEY, it is still something consumable, but the first part doesn't. It's not as if you get attacked by a bee every time you want to put honey in a cup of tea. So while the parts are individually iconic, the iconicity is misleading when applied to the whole.

Another example is the sign RAIN in KSL, it is a compound of 'water' + a classifier. The sign for WATER depicts someone drinking from a cup, and the second part is a classifier that indicates many small things falling down (such as depicting raindrops). The compound of water and many drops falling down makes sense for RAIN, but the image of someone drinking from a glass is not at all iconic for rain.

3.2 The Timeline

One group of iconic signs has appeared in all four sign languages and defies simple categorization. Those are signs related to the timeline. Every culture has beliefs about time, whether its linear, cyclical, or something else. Unexpectedly, the picture of the timeline is shared in common with these four unrelated sign languages. The form of the timeline that is shared here is one that uses the signer's positioning as the present, locations behind the signer as past (usually implied by a backward movement), and the locations in front of the signer as the future. This is pictured in Figure 7 below.



Figure 7: Timeline¹⁷

Signs related to the timeline are often located on the body, or if not, are usually in significant proximity. Often their location is at, or above the shoulder¹⁸, though they are also located at the cheek, eye, or forehead. Less commonly, some signs are located to the side of the body, such as the ASL sign LATE (Figure 8 below).

¹⁷ Special thanks to baby Sophie for modelling the "near future" position for us.

¹⁸ If you draw an imaginary square at the side of the head in the space between the forehead and the shoulder, most of the signs for the timeline would fall somewhere in that square.



Figure 8: LATE (ASL)

These signs are not semantically linked to their body location in the way that eating is semantically linked to the mouth. Rather, they're linked to the body as the conceptual center point of the timeline. Because of this, many different locations are used for different signs because the location isn't referencing a property of the body part as much as a property of the body as a whole.

A commonality of the locations used for the timeline is that they tend to be to the side of the body so they can move either backwards or forwards. So the signs concerning time at the chin, eyes, and forehead will often be at the side of the chin, eyes¹⁹, and forehead respectively. However, signs referencing the future aren't as bound by this restriction as signs referencing the past. Examples of this are FOREVER in HKSL (at the chin) and GRANDFATHER in ASL (at the forehead). It's easy to move from the body forward from any location. It's less easy to move from the body backwards.

The category of iconicity I use for classifying the timeline is analogous shape or position: central (asp: central). The analogous shape or position category is used when the body part is

¹⁹ KSL in particular uses the eye location for the timeline.

used for its 3 dimensional qualities rather than actually picturing a body part. A quality all these timeline locations share is that they are located on the body which is at the center of the timeline. A problem with the subcategory "central" is that it would technically apply to any body part, except possibly the arms. The analogous shape or position category has several uses, but the subcategory "central" is only used for the timeline. A problem that remains is that I do not currently know why there are several body locations used for the timeline within a single sign language. Normally families of signs are formed by analogy from an original sign and thus all the signs in the family tend to have the same location, but this is not the case here.

With the explanation of the categories out of the way it's time to apply them to the first of the four sign languages looked at here: ASL.

CHAPTER 4 AMERICAN SIGN LANGUAGE

The origins of ASL can be traced back to the early 19th century with the work of Thomas Hopkins Gallaudet and his founding of the American School for the Deaf (ASD) in Hartford Connecticut. A graduate of Andover Theological Seminary, Gallaudet encountered Alice Cogswell, the Deaf daughter of his neighbor Dr. Mason Cogswell, and attempted to teach her English. With funding from Cogswell and others, he travelled to Europe to learn Deaf pedagogy. He went to France to the Institut National de Jeunes Sourds de Paris, which taught a manual communication method. He learned the methods of the school and convinced Laurent Clerc, a Deaf assistant to the school's founder, to accompany him to America. The signs that Clerc brought from France mixed with the pre-existing signs of the students from Martha's Vineyard, Henneker New Hampshire, and the Sandy River Valley in Maine (Lane et al. 2000:17), and possibly also Plains Indian Sign Language (Davis 2010). This mixture of sign languages resulted in ASL.

4.1 ASL Dictionary – The Gallaudet Dictionary of American Sign Language

The Gallaudet Dictionary of American Sign Language was initially published in 2005 by Gallaudet University and edited by Clayton Valli. Gallaudet University was founded in 1864 and is located in Washington DC. It was the first school for the advanced education of Deaf people and still is the only university in the country specifically for the Deaf, though there are others with large programs for the Deaf. Since Gallaudet is located in Washington DC, the signs in the dictionary predominately reflect that dialect. Texas, California and other states have their own regional sign variants, but since Gallaudet attracts students from across the US, the Gallaudet dialect is generally known throughout the US.

The dictionary includes videos for 2986 signs and typically includes several English glosses for each sign. The dictionary is arranged in alphabetical order by English gloss. Sometimes a few variations on a single sign are given. When this variation is simply a variation of handshape due to initialization²⁰, I generally skipped it. If the variant wasn't initialized, and especially if it was signed at a separate location, I generally included it in the analysis. The dictionary does not categorize signs by locations, and each word is signed by a single signer from a single angle (typically the camera is directly in front of the signer). This occasionally made it more difficult to assess a sign's location. In those cases, I cross-referenced the sign with an online ASL dictionary such as handspeak.com.²¹

4.2 ASL Data Analysis

4.2.1 ASL Iconicity Chart

An analysis of the data from the Gallaudet Dictionary is provided below in Table 4-2. All the signs gathered in the data located on the body for ASL are summarized in the chart below and identified as being in one of the 12 categories of iconicity discussed in chapter 3. The full list of data for ASL is found in Appendix A. The location of the sign is given in the left column, the category of iconicity is given in the middle column. Also, the location name is formatted as

²⁰ Initialization is a common occurrence in ASL. The handshape of a sign is typically replaced with the first letter of the English gloss, though sometimes a non-initial letter within the word is used. It is a type of borrowing.

²¹ A particular strength of this dictionary is that it often gives several sign variations. This has been helpful in tracing phonological change.

a link that goes directly to the associated location table in the appendix. If there is any question about the truncated labels in this summary chart, the full form can be found in the appendix, which should clear up any ambiguity.

The third column is the "Iconic Relationship" column. For many signs there is no need to provide any information in the third column to get from the form to the meaning, but some signs have a more complex relationship. Beyond the category of iconicity there can be one or more metonymic or metaphorical extensions, as the journey from form to meaning can be a multi-step process. In the "Iconic Relationship" column, there can be a chain of metonyms or metaphors. These are separated by the word "for." An iconicity chain is when there are multiple steps required to connect the form to the meaning of the sign. An example of this is the sign STUBBORN. It is homonymous with DONKEY, which is signed at the forehead location, depicting a donkey's ears. This is a simple metonym where a part of the animal is associated with the whole animal. For English speakers it may be easy to see the link between donkeys and stubbornness because we commonly ascribe that personality trait to donkeys and have idioms like "stubborn as a mule." For non-native speakers of English this association might be opaque. But with each link of the chain in place it makes sense: the donkey ear at the forehead is associated with donkeys which are in turn associated with the character quality of being stubborn. So in the chart, STUBBORN is annotated "ap for creature for character." Not every metonym and metaphor needed to link the form to the meaning is given, that would be prohibitively lengthy, just the ones that seem less obvious.

| Location | Categories of Iconicity | Iconic Relationship (metonym or metaphor) |
|-------------|--|---|
| Head (80) | | |
| - Face (43) | fop: seeing (11), facial expression (9), cognition (4), seeing/cognition (3) ²² | expression for emotion: anger (3), awe (1), love (1), sadness (3) |
| | iup: wearable (1), camera (1), mirror (1) | |
| | bp: face (11), freckles (1) | face for appearance (8) |
| | asp: front (2) | |
| | eap: washing (1) | |
| | ma: crossing the forehead (1) | ma for religion (1) |
| - Side (25) | fop: cognition $(4)^{23}$, sweat (1) | |
| | iup: wearable (2), shampoo (1), scissors (1), pillow (1), hairbrush (1) | |
| | bp: hair (1), head (1) | |
| | ap: head of cabbage (1) | |
| | asp: central (3) | central for timeline (3) |
| | qop: beauty (1), curly (1), height (1) | |
| | eap: haircut (4) | |
| | lsa: male/female gender $(1)^{24}$ | |
| - Top (11) | iup: wearable (2), comb (2), scissors (1) | |
| | ap: lion's mane (1), skunk stripe (1) | ap for creature (2) |
| | qop: bald (1), blonde (1), height (1) | |
| | eap: shower (1) | |
| - Back (1) | fop: cognition (1) | |

Table 3: ASL iconicity by location

²⁴ This location for COUSIN-(neuter) is halfway between the upper half of the head which designates the masculine gender and the lower half which designates the feminine gender. The positioning of this sign indicates that the gender is unspecified and is formed from analogy to the male/female locations.

²² The category exists solely for the sign SLEEP and compounds of that sign. It does seem to minimally indicate a closing of the eyes, but it seems to indicate more than that. Perhaps a shutting off of consciousness or a relaxing of the whole face.

²³ The location of the sign ISOLATED is unclear in the video. It may touch the cheek bone, or come from the side of the head, and there are variations of this sign that aren't located on the body at all. This seems to be a phonological shift from the forehead. The iconic base of the sign has to do with someone having a conversation inside their own head.

| Forehead | fop: cognition (69) | |
|------------------|---|---|
| (131) | iup: wearable (12) | wearable for: male gender $(2)^{25}$, person $(10)^{26}$ |
| | bp: brain (1), eyebrow (1), face (1), forehead (1) | face for moon (1) |
| | ap: horns (7), donkey ears (2), antlers (1) horse ears (1), rooster crest (1) | ap for creature (12), creature for character (2) |
| | asp: central (1) | central for timeline (1) |
| | qop: black (2) | |
| | eap: illness (2) | |
| | ma: bowing (3), wiping sweat $(1)^{27}$ | |
| | ges: salute (3) | salute for person (1) |
| | lsa: male gender (17) | |
| | bor: English: "sense" (5) ²⁸ | |
| <u>Eyes</u> (34) | fop: seeing (17), opening (3), crying (2), blinking (1), facial expression (1), winking (1) | opening for surprise (2) |
| | iup: wearable (4), telescope (1) | |
| | bp: eyes (1), eyelash (1) | |
| | ap: owl eyes (1), raccoon eyes (1) | ap for creature (2) |

²⁷ Shaw and Delaporte (2015:269) tie this sign to LSF by means of referencing an academic laurel crown won by students in the summer. Historically this may have been the case, but now most consider this to be representing wiping sweat off one's brow.

²⁸ Five different signs are built off the same iconic base as CENTS. Shaw and Delaporte (2015:198-199) mention that CENTS could be a reference to the head depicted on the penny, or a result of the homophony between "sense" and "cents." I personally think it's likely the latter because the sign is the exact handshape and initial location as SENSE (THINK), and other signs that reference the whole head either have a handshape or movement that depicts a larger surface.

²⁵ Historically the signs for the masculine gender BOY and MALE were tied to types of hats worn. This iconicity has been reduced or lost over time. This discussion of the signs for masculine and feminine gender is complex and is dealt with in section 4.2.2 Gender in ASL.

²⁶ Six out of ten of the signs labelled "wearable for person" are related to the government. Shaw and Delaporte (2015:119) trace this sign back to the LSF sign RÉPUBLIQUE 'republic' which is an iconic depiction of the badge worn in republican's hats during the French Revolution. This interpretation makes sense of the handshape, location and small circular movement of the sign. However, this icon is defunct in ASL since politicians in the US do not typically wear badges in their hats.

| Ears (21) | fop: hearing (12) | |
|------------------|---|--|
| | iup: wearable (4), hearing aid (1), headset (1) | wearable for person (1) ²⁹ , wearable for color: gold (1), silver (1) |
| | bp: ear (1) | |
| | eap: illness (1) | |
| | ma: pulling ear (1) | |
| <u>Nose</u> (44) | fop: smell (6), runny nose (2), blowing nose (1), sight $(1)^{30}$, sneeze (1) | runny nose for person (1) |
| | iup: bull-ring (1), clown nose (1), handkerchief (1) | bull-ring for creature (1) |
| | bp: face (3), nose (1) | face for person (2), face for doll (1) |
| | ap: mosquito proboscis (2), mouse/rat nose (2) eagle beak (1), elephant trunk (1), fox snout (1), hooked nose (1), penis (1), wolf snout (1) | ap for creature (10) |
| | eap: illness (1) | |
| | ma: throwing snot (1) | |
| | lsa: negative (9), humor (4) | negative for creature (1) |
| | bor: English idiom: "hard nose" (1) | |

²⁹ While wearable for person is common in the other sign languages analyzed here, it is comparatively less common in ASL. This is likely because of the prevalence of the PERSON suffix, which is used to derive nouns referring to professions (Bickford 2009).

³⁰ INVESTIGATE here seems to be a phonological shift from the eyes to the nose. <u>Handspeak.com</u> has it coming from the eye as expected.

| <u>Cheek</u> (76) | fop: eating (8), chewing (3), facial expression (2), cognition (1) ³¹ , drinking (1), speaking (1) | |
|--------------------|--|--|
| | iup: wearable (1), phone (3), makeup (2) | wearable for female (1) |
| | bp: beard (1), cheek (1), dimples (1), face (1), jaw (1), skin (1) | |
| | ap: whiskers (2), leather (1), peach fuzz (1), tiger stripes (1), upper and lower half of head $(1)^{32}$ | whiskers for creature (1), tiger stripes for creature (1) |
| | asp: central (5) | central for timeline (5) |
| | qop: red (2), fat (1), rubbery (1), tan (1) | |
| | eap: blushing (5), sting/bite (3), illness (2), ?cool breeze (1), rub (1), shaving (1), tooth extraction (1) | blushing for emotion: shame/shy (4) |
| | ma: folding hands to sleep (4), taking pen from ear (1) | |
| | lsa: female gender (11) | |
| | ges: bite finger (1) | biting finger for envy (1) |
| | ??: NEAT/COOL (1) | |
| <u>Mouth</u> (110) | fop: speaking (27), eating (26), drinking (9), smoking (4), facial expression (2), kissing (2), spitting (1), vomiting (1) | speaking for fame (1) |
| | iup: musical instrument (4), wearable (2), snorkel (2), lipstick (1), napkin (1), pencil (1), pipe (1), stamp (1), straw (1), thermometer (1), toothbrush (1) | wearable for creature (1) |
| | bp: lips (2), teeth (2), mouth (1), mustache (1), tongue (1) | |
| | ap: beak (2), snake fangs (2) | ap for creature (4) |
| | qop: red (3), brown (1), hard (1) | |
| | ma: blowing a kiss (4), brushing teeth (1) | |
| | bor: English: who (1) | |

³¹ The sign EXPERIENCE used to be at the forehead, see Shaw and Delaporte (2015:91).

³² The sign SEX in ASL moves from the top to the bottom of the cheek. This is referencing the top and bottom half of the head which are used for male and female genders respectively. The mapping of the whole head onto the cheek is also seen in some variations of the sign PARENTS, originally a compound of MOTHER and FATHER, but now often articulated on the cheek.

| <u>Chin</u> (100) | fop: eating (17), speaking (12) drinking (11), taste (5), sex act (2), breathing (1), licking (1) | eating for character (1), taste for emotion (1) |
|-------------------|---|---|
| | iup: wearable (2), microphone (1), napkin (1), stamp/seal (1) | |
| | bp: beard (5), chin (1) | beard for age $(5)^{33}$ |
| | ap: frog throat (1), goat beard (1) | ap for creature (2) |
| | asp: lightbulb filament (4) ³⁴ , thin/thick (2) central (1) | central for timeline (1) |
| | qop: red (4), hard (1) | |
| | ma: blowing a kiss (7) , ³⁵ pig rooting (3), door shut in face (2) | pig rooting for creature (3), creature for dirty (2) |
| | ges: biting thumb (4), biting fingers $(2)^{36}$ | biting thumb for negation (4) |
| | lsa: female gender (5) | |
| | bor: English "who" (1) | |
| | ??: BIRTHDAY (1), TWINS (1) | |
| <u>Neck</u> (21) | fop: speaking (2), drinking (2), swallowing (1) ³⁷ | |
| | iup: wearable (7) | wearable for person (1) |
| | bp: neck (1), throat (1) | |
| | ap: giraffe neck (1) | part for creature (1) |
| | eap: choking (2), illness (2) | |
| | ma: chopping head (1) | |
| | ??: CURIOUS (1) ³⁸ | |

³⁵ The original iconic base for GOOD and THANK-YOU seem to have been lost along with all the signs formed by analogy to them.

³⁶ Shaw and Delaporte (2015:206-207) analyze the sign TREASURE/PRECIOUS as historically biting the fingers as a gesture of envy.

³⁷ The functions of the part at the neck are a bit different than at the mouth, even though most of the categories overlap. The iconic base at the throat tends to depict something travelling through the throat.

³⁸ Shaw and Delaporte (2015:59) didn't find any record of the sign CURIOUS before 1965 and couldn't trace the historical origin. I also am not confident on the iconic base, but there do seem to be a few logical clues. The handshape and the pulling action is similar to the sign LIKE in which the person is

³³ These 5 signs are related to the sign OLD. According to Shaw and Delaporte (2015:191-192) the etymology of the sign OLD goes back to LSF depicting how old people rest their chin on canes. This is likely true, however, the iconic base has been reanalyzed as depicting a beard, which is how Long (1910:67) describes the sign. The phonology of the sign has shifted accordingly.

³⁴ The sign LIGHT seems to be depicting a flickering filament of a lightbulb, where the signer's head is the bulb.

| Shoulders | fop: carrying (3) | carrying for responsibility (3) | |
|--------------------|---|--|--|
| (30) | iup: wearable (9) | wearable for person (8) | |
| | bp: back (1) | | |
| | ap: wings (2) | part for creature (1) | |
| | asp: central (10) | central for timeline (10) | |
| | eap: pat (1) | | |
| | ma: lifting weights (2) | | |
| | ??: RECOVER (1), RELIGION (1) | | |
| <u>Chest</u> (140) | fop: blood flow (5), breathing (3), coughing (2), | | |
| | iup: wearable (32), purse (1), rifle (1) | | |
| | bp: chest (30), body (4), breasts (2), rib (2), side (2), lungs (1), nipples (1) | chest for self (29), breasts for female (1) | |
| | ap: bat wings (1), bear claws (1), leather (1) | ap for creature (2) | |
| | asp: central (1) | central for timeline (1) | |
| | qop: white (3) | | |
| | eap: emotion (25), hug (1), hunger (1), illness (1), poke (1), tickling (1) | emotion: happiness (5), anger (4), fear (3), love (3), sadness (3), stress (1) | |
| | ma: pulling curtain (3) scrubbing body (3), thumbs in overalls (2), folding arms (1), monkey scratching (1), putting in pocket (1), skeleton with crossed arms in coffin (1), taking shirt (1) | monkey scratching for creature (1) | |
| | lsa: life (2) ³⁹ | | |
| | bor: French: cœur 'heart' (1) | | |
| | ??: GANG (1) | | |

being "led" to the desired thing. The location of the neck in ASL and in other sign languages is tied to the concept of desire.

³⁹ This version of GYM and WELL (health) are related to the sign STRONG. According to Long (1910:68) this sign wasn't originally associated with the chest. It had a circular motion in front of the signer. Over time this movement was changed to a forward movement out from the chest. This may be due to an association of the chest with life. Also these signs seem to have a connection to the arms which is connected to strength, even though the arms aren't being used as the location but rather part of the handshape.

| Heart (18) | fop: heartbeat (1) | |
|-------------------------------|---|--|
| | iup: wearable (3) | wearable for person (1) |
| | bp: heart (12) | heart for personality (5), heart for |
| | bp. ficart (12) | emotion: fear (1), hurt (1), love |
| | | (1), heart for religion (2) |
| | eap: illness (1) | |
| | ges: cross-heart (1) | |
| <u>Arm</u> (41) ⁴⁰ | | |
| - Upper (11) | iup: wearable (6), hypodermic needle (1), | |
| | bp: bicep (2), arm (1) | bicep for power (2) |
| | asp: length (1) | |
| - Forearm | fop: cradling (3) | |
| (30) | iup: wearable (2), hypodermic needle (3), basket handle (2) | pun: hypodermic needle for coke (soda) ⁴¹ |
| | bp: arm (2), bicep (2), nerves (1) | bicep for power (1) |
| | ap: legs (3) ⁴² | |
| | asp: surface (6), length (3) | surface for cover (2), surface for creature (1) |
| | ??: SING (3) ⁴³ | |
| <u>Elbow</u> (10) | iup: wearable (2) | |
| | asp: length (1), surface (1) | length for tree (1), surface for cover (1) |
| | bp: elbow (1) | |
| | ma: harvesting (3), lifting by collar and striking with rod (1) | |
| | ??: CRACKER (1) | |
| <u>Wrist</u> (15) | iup: wearable (3) | |
| | bp: wrist (1), vein (1) | |
| | eap: cut(1) | |
| | ma: check pulse (3), bound hands (1) | |
| | lsa: time (4) | |
| | ??: DUTY (1) | |

⁴⁰ In ASL there are several signs that move from the upper arm to the forearm. I am including them here once under upper arm, not upper arm and forearm to avoid redundancy. Likewise, signs moving from forearm to upper arm are included just once in the forearm category.

⁴¹ In English "coke" can refer to cocaine or to the soda (Coca-cola originally contained cocaine). This sign refers to the soda but its iconicity is based on drug use.

⁴² Two of these signs are both iup: wearable and ap: legs. They are both referring to stockings worn on the legs.

⁴³ SINGER and POETRY both come from the sign SING. The iconic base for SING is unclear. My best guess would be that it depicted a conductor waving their hands and phonologically shifted to this form, or choristers turn a page in their music. Long (1910:43) gives no reason associated with this sign.

| Stomach (9) | fop: giving birth (1) | |
|-------------------|--|---|
| | iup: wearable (1) | |
| | bp: fat (1), stomach (2) | |
| | eap: emotion (2), illness (2) | illness for emotion: anger (1), disgust (1) |
| <u>Waist</u> (20) | iup: wearable (16) | wearable for person (8) |
| | bp: chest (1) ⁴⁴ , penis (1), waist (1) | chest for self (1) |
| | ap: penguin wings (1) | |
| <u>Legs</u> (3) | iup: wearable (1) | |
| | bp: legs (1), lap (1) | |

4.2.2 Gender in ASL

The signs associated with gender in ASL, categorized as a language-specific association is a large enough and complex enough category that it needs a more in-depth discussion. This section explains the history of the non-arbitrary association between the form and the meaning of the gender signs in ASL.

One of the most commonly known bits of iconicity in ASL is that the masculine gender is at the upper half of the head and the feminine gender is signed at the lower half of the head. Shaw and Delaporte (2015) trace the history of the signs BOY, GIRL, MAN and WOMAN to their origins in LSF (Langue des Signes Française or French Sign Language) which shows their original iconicity and subsequent phonological shifts, as well as extension of their usage to other gendered signs. Shaw and Delaporte (2015:32) write in their entry for BOY:

> BOY comes from the LSF sign GARÇON (boy), which was originally a compound of the signs HOMME (man) and JEUNE (young). The second part of the compound has since disappeared. HOMME is described as "taking one's hat to say hello" (Brouland 1855), the "sign of tipping a hat" (Pélissier 1856), and the "sign of lifting and putting a hat back on one's head" (Lambert 1865).

⁴⁴ Phonological shift from chest (Shaw and Delaporte 2015:32)

Confirming its connection with HOMME, the contemporary ASL sign BOY can also be used to mean "man".



Figure 9: BOY (ASL)

The original iconic base of the sign GARÇON referred to tipping one's hat. This is a mimesis of an action culturally associated with men. In present day ASL, it seems to still be commonly understood that the sign refers to the brim of a hat.⁴⁵ However, the tipping action may be lost in the iconic base since this is no longer a cultural practice of men, and there is no motion in the sign to indicate that the hat is being tipped.

Shaw and Delaporte (2015:114). write in their entry for GIRL:

[GIRL] comes directly from the French sign FEMME (woman), which has been noted since Abbé de l'Épée's time. At least two French authors (Puybonnieux 1846; Lambert 1865) indicate the unambiguous, iconic origin of this sign in their descriptions: the thumb traces the length of the cheek to represent the drawstrings

⁴⁵ I heard this etymology when learning ASL, and it is also attested at <u>https://www.handspeak.com/word/search/index.php?id=223</u>. Note that there is no reference to tipping the hat, or an understanding that the LSF originally referred to a grown man.

of the bonnets that girls once wore. In [GIRL], the movement is now one or two short strokes on the lower chin.

It seems to still be commonly understood that the iconic base of this sign is picturing a bonnet string.⁴⁶ Even so, it is a dated imagery since women don't wear bonnets anymore. This sign seems to be the origin of the current ASL association between the lower half of the face and the female gender. In addition to being possibly the oldest sign at this location associated with the female gender, it is also the only one with a form still picturing something in the real world: a bonnet string.

For the sign MAN (in figure 10 below), Shaw and Delaporte give an extended explanation of the history (2015:168-168), but in short it pictures an ostrich feather in the hat of and the ruffles on the shirt of a French gentleman. According to the Gallaudet ASL Dictionary, the sign still means either MAN or GENTLEMAN, but MAN is the more common usage. This explanation makes good sense of the 5 handshape used at both locations.

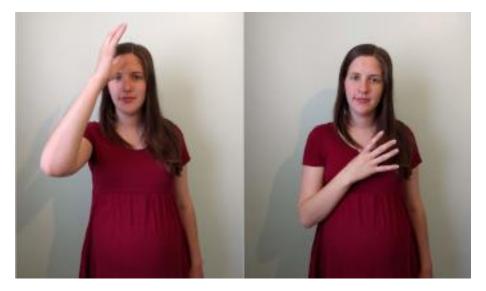


Figure 10: MAN (ASL)

⁴⁶ When learning ASL, I personally had heard that this referred to a girl's bonnet. This common etymology is also noted at <u>https://www.handspeak.com/word/search/index.php?id = 908</u>.

The sign WOMAN (pictured in figure 11 below) was originally a compound of GIRL + FINE where FINE pictures the ruffles on the shirt like the sign MAN (Shaw and Delaporte 2015:312-313). The 5 handshape spread backwards from the second part of the compound to the first, obscuring the iconicity of the first part. MAN and WOMAN in ASL are now minimal pairs contrasting the forehead with the chin location. While the iconic base of MAN still makes sense as a feather in the hat of a French gentleman, it would be nonsensical to imagine a feather on the chin of a French lady.



Figure 11: WOMAN (ASL)

The rest of the male/female signs in ASL seem to derive from one of these previous four signs. FATHER is a reduction of the sign MAN to only include the forehead location (Shaw and Delaporte 2015: 98). The connection between the iconic base and the meaning of the sign is broken, because ostrich feathers in hats were never specifically associated with fatherhood. The sign MOTHER is similarly a reduction of the sign WOMAN to only include the chin location (Shaw and Delaporte 2015:181). The iconic base of this sign is likewise lost because there never was supposed to be an image associated with the 5-hand at the chin, rather the location is still linked to the iconic base of a bonnet with the sign GIRL. The sign PARENTS is a compound of MOTHER and FATHER.

The sign GRANDFATHER and GRANDMOTHER seem to be derived from FATHER and MOTHER with an added forward movement, which would be reference to the passing of generations (Shaw and Delaporte 2015:121). It is interesting that the iconic base of hats, bonnets, feathers, and ruffles is long lost at this point of the male and female derivations, but here with the signs for grandparents there is a new iconic feature added which is movement along the timeline.

The masculine and feminine gender words referring to collateral kinship (those off the direct line of descent) are initialized: AUNT, UNCLE, NIECE, NEPHEW, COUSIN-(male), COUSIN-(female). The handshape of these signs is iconically linked to the initial letter of the English glosses, the movement is a forearm rotation that doesn't seem to add an iconic component, and the location is iconic for gender although displaced to the side of the head as an iconic representation of relationship "to the side". At this point the locations aren't in reference to headgear but they seem to have gender as one of the basic meaning attached to the location.

The forehead location, of course, is also used to represent cognition. This can add ambiguity for things such as name signs. One of my linguist friends, named Albert, has a name sign that is an A-handshape tapped at the temple, originally due to his tendency to always be thinking about language. However, the significance of the location of his name sign got reinterpreted as referring to his masculine gender, resulting in his wife Anita being given a name sign of an A-handshape tapped at the chin to indicate her female gender.

There is one additional kinship term (Figure 12 below) which breaks the standard pattern: COUSIN-(neuter).

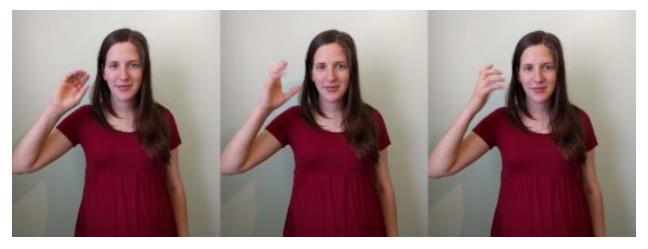


Figure 12: COUSIN-(neuter) (ASL)

Unlike the male/female versions of COUSIN, which are signed to the side of the forehead and chin respectively, the neuter version, which is unspecified for gender, is half-way between the male and female gender locations. I have not seen this gender-neutral location extend to other signs, so it may only exist for COUSIN. It could be motivated by the fact that the English word "cousin" is also gender-neutral.

Another unusual gender contrast comes from the signs PRINCE and PRINCESS (pictured in figures 9 and 10 below).



Figure 13: PRINCE (ASL)



Figure 14: PRINCESS (ASL)

There are several signs for royalty, distinguished by initialization, whose locations picture a sash worn across the body, from the contralateral shoulder to the ipsilateral side of the waist. Examples include: KING, QUEEN, ROYAL, PRINCE, and LORD; even CHRIST and MESSIAH are initialized signs built around the image of a sash. PRINCESS is an unusual case of female gendering in ASL, which uses the sash location but can't be distinguished from PRINCE simply by initialization. In the Gallaudet dictionary the sign is initialized with a P-handshape and moves from the contralateral side of the chest to the ipsilateral side of the chest, then down to the ipsilateral side of the waist, in an upside-down L-shape which doesn't look anything like a sash. There is only one other sign I know of that uses these specific locations, and that is CHINA. However, CHINA is borrowed from Chinese Sign language, so it is unlikely that PRINCESS is based off CHINA. Interestingly, handspeak.com⁴⁷ gives a variant of PRINCESS which moves from ipsi to contra chest down to ipsi waist, which preserves the imagery of the sash. The ipsi to contralateral chest locations are only used for a few signs in ASL: WE, STAFF, MEMBER, a few other semantically-related signs, and also the sign BREASTS. The location of

⁴⁷ https://www.handspeak.com/word/search/index.php?id=5327

the breast is not a common location to designate female gender in ASL, but it is very common in other sign languages such as Kenyan Sign Language and Swedish Sign Language. So, the sign PRINCESS with the variation of the movement attested at handspeak.com is most likely a compound sign BREASTS + PRINCE where the initialized P-handshape spread to the first part of the compound. It is unclear why the movement changed, but it is common for signs that are ipsi-contra on the chest to also be signed contra-ipsi.

4.2.3 ASL Compared to Other Sign Languages

ASL has some unique or unusual features compared to the other sign languages analyzed here, specifically the use of two locations: the elbow and the nose. Most of the other unusual features have already been discussed either in the footnotes to the chart, or section 4.2.2 Gender in ASL.

The elbow location, commonly used in ASL, does not occur in either KSL or HKSL, and only two signs are located there in Auslan: one of which is the sign for the body part itself, and the other is a highly iconic CHOP-TREE. If Shaw and Delaporte's etymology is correct, many of the signs in ASL located at the elbow were not located there originally but moved over time. The sign COUNTRY is identical to the LSF CAMPAGNE 'countryside', which, according to Shaw and Delaporte (2015:57), originally simulated the act of cutting wheat by grabbing it with the left and cutting it as with a sickle with the right hand. Over time the movement reduced to a circular motion and the location shifted to the elbow. Another sign in ASL that moved to the elbow is PUNISH. An earlier form of PUNISH depicted grabbing someone by the collar with the left hand and striking them with a rod (Long 1918:53). For both these signs, the location shift to the elbow obscures the iconicity of the sign. There seems to be a tendency for signs located near a body part to move to that body part over time. This also has happened with some signs on the timeline such as FOREVER. I am unaware of the linguistic motivation for this.

In ASL the nose location has two less common categories associated with it: humor and negative evaluation. According to Shaw and Delaporte (2015:111) ASL and LSF both associate

the nose with humor. In European culture, the nose is considered humorous, as with clown noses. The sign SILLY used to be signed at the forehead (Long 1918:34), but moved down to the nose presumably due to the nose's connection with humor and negative qualities.⁴⁸

Similar to the category of humor is the category of generally negative quality. Sometimes these categories can overlap such as with the sign FOOLISH which is clearly negative, but also associated with humor. The sign BUG (insect) used to be located at the chest (Long 1918:95) and iconically depicted the movement of bug legs at the thorax and abdomen. This location shifted to the nose presumably due to the association of the nose with negative qualities. Other signs associated with negative evaluation are FALSE, DON'T-CARE, LOUSY, MOSQUITO, MOUSE, WITCH.

Of the 904 signs in ASL located on the body included in the data, only 17 of them were placed in the unknown (??) category because I either could not figure out how they had an iconic or non-arbitrary motivation, or was very unconfident in their potential explanation. Out of all the sign languages analyzed here, ASL is likely to have the lowest number of unknown motivation signs because ASL is the only sign language of these that I use personally, and it has had the most extensive research out of any of these sign languages. In total, 98.1% of the signs in my data are shown to have iconic (90.0%) or non-arbitrary motivation (8.1%), especially in their original forms. This shows that there is a strong tendency for signs located on the body in ASL to have iconic or non-arbitrary motivation.

⁴⁸ This re-iconization is due to a reanalysis of the iconic base. It moves from a general cognition iconic base indicated by its former location at the forehead to a more specific humor related location at the nose. This sign is interesting because it is contrary to Fischer's observations in two ways. First, it became more iconic rather than less iconic over time (due to reanalysis), and it moved from the periphery of the face to the center, which is the opposite of the phonological norm.

CHAPTER 5 AUSLAN

Auslan has roots in both old British and Irish sign languages. The earliest records of sign language in Britain go back to 1644, but the education of the deaf took off in the 1800s. Thomas Braidwell founded the first deaf school in Britain, The Braidwell School, in 1760. It was an oral school but used some signs as well. Within 100 years there were over 22 deaf schools established (Kyle and Woll 1985:40).

In Australia, the first deaf school, the Sydney school, was founded by Thomas Pattison, a deaf man educated at the Edinburgh Deaf and Dumb Institution. The second deaf school, the Melbourne school, was founded soon thereafter by another deaf man, Frederick Rose, who was educated at the Old Kent School in London (Flynn 1984). Even before these schools, however, there had been much deaf education going on through various religious institutions, especially the Catholic church. Many of the early settlers of Australia were Irish and they brought Catholicism along, and the church educated the deaf in Irish sign language, which has French sign language influence including a one-handed manual alphabet (Johnston 1989:32). While there were Aboriginal sign languages in Australia, such as Warlpiri Sign Language, Johnston (1989:31) states there is no evidence that these sign languages had any influence on Auslan.

Even though there have always been two signing systems among people of European descent in Australia, British sign language and the two-handed alphabet have been the basis of the sign language of the Australian Deaf community. Most users of the one-handed alphabet understand the two-handed alphabet, but the reverse is not true (Johnston 1989:32).

The majority of the dialectal variation within Auslan is between the north, which includes New South Wales and Queensland, and the south, which includes Victoria, South Australia, Tasmania, and Western Australia.

There has been recent influence on Auslan from (American) Signed English and ASL. Johnston writes, "In recent years (late 1970's onwards) there has been an explosion of borrowing from ASL — some of it imposed by teachers for Signed English and some of it spontaneous, brought about by increased cultural and personal contacts between the American and Australian Deaf communities" (1989:30). So, although Auslan comes mainly from British sign language and is part of the BANZSL (British, Australian, and New Zealand sign language) language family, there is a historic connection to Irish sign language and by extension Old French sign language, and there is a modern connection to Signed English and ASL due to borrowing.

5.1 Auslan Dictionary – Auslan Signbank

Johnston is the author, chief researcher and primary editor of the Auslan Signbank. He is also responsible for publishing the first Auslan dictionary (Johnston 1989), and several subsequent editions in the 1990s. The signs in the dictionary have been collected over the past two decades and are in the Auslan lexical database that the Signbank draws on. Other researchers and co-editors are Adam Schembri, Robert Adam, Jemina Napier, and Darlene Thornton, along with many contributions by others over the years (www.auslan.org.au).

As of December 2019, the Signbank had 7794 entries. In the dictionary, each sign is given multiple glosses, which shows the variety of meaning a single sign can have. For my data, I included the exact string of English glosses used in the dictionary to reference the sign. The dictionary includes information on the regional variations of signs for New South Wales, Queensland, South Australia, Tasmania, Victoria, and Western Australia. It also includes the more general categories 'Northern Dialect', 'Southern Dialect', and 'Australia Wide'. I collected

my data using the 'Australia Wide' search preference, so there are likely fewer regional variants in my data.

5.2 Auslan Data Analysis

5.2.1 Auslan Iconicity Chart

As mentioned, the Auslan Signbank tends to give several glosses for a single word. In order to differentiate the signs properly I included every gloss for each sign. This sometimes made things difficult for the iconicity chart. For example, the sign ANESTHESIA is also glossed as ANESTHETIST. The sign can refer to the substance or the person associated with the substance. If at least one of the glosses referred to a person, I included "for person" in the "Iconic Relationship" column. Within this chapter especially, due to the multiplicity of glosses I have sometimes taken the convention of referring to a sign by two of its gloss words separated by a "/". For example, the gloss ANESTHESIA/ANESTHETIST could be used for the sign mentioned previously.

| Location | Categories of Iconicity | Iconic Relationship (metonym or metaphor) | |
|-------------|---|--|--|
| Head (79) | | | |
| - Face (26) | fop: cognition (2), facial expression (5), seeing (2) | facial expression for emotion: unkind (2), happy (1), shame (1) | |
| | iup: camera (1) | | |
| | bp: face (7) | face for: age (3), appearance (1) | |
| | asp: clockface (2), front (1) statue bust (1) | clockface for time (2) | |
| | qop: black (1) | | |
| | eap: feel air on face (4) | | |

| Table 4: Auslan | iconicity | by] | location |
|-----------------|-----------|------|----------|
|-----------------|-----------|------|----------|

| - Side (29) | fop: cognition (4), seeing (2) | |
|------------------|--|--|
| | iup: wearable (5), comb (1), hairspray (1) | wearable for person (2) |
| | bp: hair (7) | hair for: person (2), social status (1) |
| | asp: height (3) | height for rank: for person (2), for character (1) |
| | eap: shave (1) | shave for person (1) |
| | ma: folding hands to sleep (5) | |
| - Top (23) | fop: cognition (3) | |
| | iup: wearable (9) | wearable for person (6) |
| | bp: hair (3), head (1) | |
| | ap: dorsal fin (1), crest (1), horns (1), light on top of cab $(1)^{49}$ | ap for creature (2) |
| | asp: height (1) | |
| | ma: dog ears drooping (1) | |
| | bor: English idiom: "over the head" (1) | |
| - Back (1) | iup: wearable (1) | wearable for person (1) |
| Forehead (90) | fop: cognition (63), seeing (1) | cognition for: fame (1), group (1), person (1) |
| | iup: wearable (4) | wearable for person (3) |
| | bp: hair (1) ⁵⁰ , brain (1) | hair for female (1) |
| | ap: horns (2), antennae (1), antlers (1), mane (1), rabbit ears (1) | ap for creature (6) |
| | asp: height (1) | height for person (1) |
| | eap: illness (1) | |
| | ma: christening (2), crossing forehead (1) | |
| | ges: salute (2) | |
| | lsa: female (2) | |
| | ??: name (2), COUNTRY (1), INSIGNIFICANT (1) | |

⁴⁹ This sign, CAB, is included in the analogous part category because the head is the top of the body like the light is on the top of the cab. For analogous shape the head would need to resemble the form of the cab, which it does not.

⁵⁰ Two of these signs: GIRL and GIRLFRIEND seem to be at the forehead related to the sign MUM which seems to be picturing hair. The forehead may have a small family of signs for female gender, similar to the cheek. Also, GIRL and BOY are near-minimal pairs contrasting the forehead and chin locations.

| $\Gamma_{\rm resc}$ (40) | (20) (20) (20) (2) (| (1) |
|--------------------------|--|--------------------------|
| <u>Eyes</u> (49) | fop: seeing (29), crying (2), opening (2), blink (1), contraction (1), | seeing for person (1) |
| | iup: wearable (5), binoculars (1), telescope (1) | wearable for person (1) |
| | bp: eye (1) | |
| | ap: owl eyes (1), sheep ears (1) | ap for creature (2) |
| | eap: bruise (1) | |
| | ges: eye-pulling (1) | |
| | bor: English: 'bull's-eye' (1) | |
| | ??: GRANDMOTHER (1) | |
| <u>Ears</u> (21) | fop: hearing (13) | |
| | iup: wearable (2), phone (2) | |
| | bp: ear (1) | |
| | ap: ears (1) | ap for creature (1) |
| | eap: illness (1) | |
| | ??: CHERRY (1) | |
| <u>Nose</u> (35) | fop: smell (5), seeing (1) | |
| | iup: wearable (3), handkerchief (1) | wearable for humor (2) |
| | bp: nose (1) | |
| | ap: beak (2), nose (1), trunk (1) | ap for creature (4) |
| | asp: central (1), length (1) | central for timeline (1) |
| | eap: illness (1) | |
| | ma: snorting drugs (1) | |
| | ges: tapping side of nose (1) | |
| | lsa: possibility/luck (6) | |
| | bor: English: 'nosy' (2), ASL: KID (1) | |
| | ??: DEMOCRACY (1), ELDEST (1), HERO (1), JOKE $(1)^{51}$, OF COURSE (1), | |
| | OYSTER (1) | |

⁵¹ The iconicity for JOKE is unclear, but finding humor on the nose is expected. There are two other signs associated with humor in my Auslan data: CLOWN-NOSE and FUN that are signed on the nose that picture a clown's fake nose. Also, humor is one of the uses of the nose in ASL.

| <u>Cheek</u> (47) | fop: eating (7), speaking (1) | |
|-------------------|--|---------------------------------------|
| | iup: phone (2), wearable (1) | |
| | bp: face (6), meat (1), skin (1) | face for appearance (6) ⁵² |
| | ap: hippo's mouth (1), whiskers (1) | ap for creature (2) |
| | asp: central (5) | central for timeline (5) |
| | qop: black (1) | |
| | eap: shaving (2), illness (1), pain (1), scar (1) | |
| | ma: cued-speech (1), pulling bowstring (1) | |
| | bor: English: 'cheeky' (3) | |
| | ??: (10) ⁵³ | |
| <u>Mouth</u> (76) | fop: speaking (25), eating (14), breathing (2), drinking (2), licking (2), smoking (2), chewing (1), kissing (1), tasting (1) | speaking for person (8) |
| | iup: wearable (2), balloon (1), dentures (1), toothbrush (1) | wearable for person (1) |
| | bp: teeth (2), lip (1), mouth (1) | teeth for person (2) |
| | ap: beak (4), snout (1) | ap for creature (5) |
| | asp: thin (1) | |
| | qop: red (1) | |
| | ma: clenching mouth (1), fellatio (1) | |
| | ges: zip-lips (1) | |
| | bor: ASL: DON'T-CARE (1), THANK- YOU (1) | |
| | ??: (5) | |

⁵² The sign LADY seems to be in reference to appearance and NIECE seems related as well. This seems to be a small family of signs for female gender, but it doesn't extend very far. There is another small family of signs for female gender on the forehead.

⁵³ Generally, when the "??' category contains five or more signs, I am not glossing them all individually. These signs can be referenced in Appendix B

| | | 1 |
|-------------------|--|---|
| <u>Chin</u> (83) | fop: speaking (15), eating (6), laughing (3), drinking (2), biting (1), licking (1) tasting (1), vomit (1) | |
| | iup: wearable (2), microphone (1) shaver (1) | wearable for person (1), microphone for person (1) |
| | bp: beard (3), chin (1), face (1) | beard for male (2), beard for person (1), face for appearance (1) |
| | ap: beak (2), tongue (2), beard (1) | beak for creature (2), tongue for creature (2), beard for creature (1) |
| | asp: lightbulb filament (4), central (1), place to hang coat (1) | central for timeline (1) |
| | qop: hardness (2), brown (1) | |
| | ma: jaw dropping (2), kissing ring (1), stroke chin (1), wet with mouth (1) | stroke chin for cognition (1) |
| | ges: biting-fingers (2) | biting-fingers for envy (2) |
| | lsa: male (5), noon (2) ⁵⁴ | |
| | bor: ASL: FED-UP (2), ⁵⁵ CUTE (1), LESBIAN (1) | |
| | ??: (13) | |
| <u>Neck</u> (27) | fop: drinking (4), breathing (1) | drinking for desire (4) |
| | iup: wearable (5) | wearable for person (1) |
| | bp: neck (2) | neck for death (1) |
| | ap: giraffe neck (1) | ap for creature (1) |
| | qop: fat (1) | |
| | eap: choke (1), illness (1) | |
| | ma: cut-throat (5), dragged by neck (2), hanging (1) | cut-throat for butchering (3), cut- throat for butchering for death (2), dragged by neck for person (1) |
| | bor: English: 'cut-throat' (2), 'hangover' (1) | |
| <u>Shoulders</u> | fop: carrying (2) | carrying for responsibility (2) |
| (10) | iup: wearable (2) | wearable for person (1) |
| | asp: central (3) | central for timeline (3) |
| | ma: shoulder touch (1), tapping on shoulder (1) | |
| | bor: ASL: BOSS (1) | |
| <u>Chest</u> (90) | fop: blood flow (3), breathing (2), cough (1), hiccup (1) | blood flow for life (3) |
| | iup: wearable (20) | |
| | bp: chest (24), breasts (3), body (1) | chest for: self (19), health (4) |

⁵⁴ It is unclear if this sign is related to the 'clockface' or related to eating, or something else.

⁵⁵ The Auslan sign FULL/FED-UP is the exact same as the ASL sign FED-UP. However, Auslan has a negated form of this sign NOT-ENOUGH/INSUFFICIENT that does not exist in ASL. The iconicity in ASL comes from eating, specifically, being filled all the way up to your chin such that there's no more room for food.

| | eap: emotion (13), illness (3), hug (1), washing (1) | emotion: content/relief (4), happy (3), anxiety/fear (2), love (1) |
|-------------------|---|--|
| | ma: beat chest (1), holding a rifle (1) | beat chest for creature (1), holding a rifle for person (1) |
| | bor: ASL: VACATION (4), FINE (1), French 'cœur' (heart) (1) | |
| | ??: (7), morning (2) | |
| <u>Heart</u> (25) | bp: heart (14) | heart for: love (7), emotion (3), personality (3) |
| | iup: wearable (8) | wearable for person (2) |
| | eap: illness (1) | |
| | ges: cross-heart (1) | |
| | bor: ASL: MESSIAH (1) | |
| <u>Arm</u> (34) | | |
| - Upper (11) | iup: wearable (5), syringe (1) | |
| | bp: arm (2), bicep (1) | arm for power (1), bicep for power (1) |
| | eap: amputation (1), draw blood (1) | |
| - Forearm | iup: antiseptic (1) | |
| (23) | bp: arm (1), bone (1), nerve (1) | |
| | asp: surface (14), length (2) | surface for cover (3) |
| | eap: goosebumps (1), illness (1) | |
| | ??: HUMILIATION (1) | |
| <u>Elbow</u> (2) | bp: elbow (1) | |
| | ma: chopping tree (1) | |
| <u>Wrist</u> (9) | iup: wearable (8) | |
| | bp: left hand (1) | |
| Stomach (23) | fop: defecation (2), eating (2), pregnancy (1), vomiting (1) | |
| | iup: wearable (3) | |
| | bp: stomach (3) | stomach for person $(1)^{56}$ |
| | eap: emotion (5), illness (1), surgery (1) | emotion: anger (4), anxiety (1) |
| | ma: holding a rifle (1), scratching stomach (1) | holding a rifle for person (1), scratching stomach for creature (1) |
| | ??: LIVE (1), NOT-WANT (1), | |
| | | |

⁵⁶ The sign FARMER is picturing someone with a potbelly. Apparently farmers are associated with having large stomachs.

| <u>Waist</u> (19) | fop: birth (1) | |
|-------------------|-----------------------|-------------------------------------|
| | iup: wearable (15) | wearable for: money (1), person (1) |
| | bp: hip (1) | |
| | bor: ASL: MESSIAH (1) | |
| | ??: BUSINESS (1) | |
| Legs (1) | bp: leg (1) | |

5.2.2 Gender in Auslan

Gender in Auslan is unusual because it does not seem to have a regular pattern for male/female, but rather has a few small partial patterns, along with several signs that don't seem to follow any pattern.

The male gender seems to be more consistent than the female gender. When it is signed on the body it is signed at the chin. The signs MAN and GENTLEMAN both picture a beard. Other signs formed by analogy at this location are BOY, BOYFRIEND⁵⁷, NEPHEW, and possibly COUSIN. However, this location isn't consistently male because two of the variants for the sign BOYFRIEND are also glossed GIRLFRIEND, and a gender neutral COUSIN is also signed at the chin. Also, signs that one would expect to be some of the most basic masculine signs are located elsewhere. The signs FATHER, GRANDFATHER, UNCLE, BROTHER, SON are all located in neutral signing space. At best, there seems to be a partial pattern of masculine gender at the chin, but even that isn't fully consistent.

The feminine gender is a bit more complicated. There seem to be two different partial patterns for female. One is at the forehead and the other at the cheek. The sign MUM/MOTHER is located at the side of the forehead and seems to be iconically linked to hair. The signs GIRL and GIRLFRIEND are located at the middle of the forehead and seem less iconically motivated. They may be formed in analogy to MUM/MOTHER. Three signs for female are located at the

⁵⁷ There are three variations of BOYFRIEND, two of which are also glossed GIRLFRIEND, so the location doesn't seem to be obligatorily masculine.

cheek: LADY, one of the variants of GIRL, and NIECE. LADY, also glossed LADY-LIKE and FEMININE is located at the ipsilateral cheek, and seems to be iconically linked to beauty or appearance. The sign FASHION is at this same location. The variants of GIRL and NIECE⁵⁸ are located at the contralateral cheek. Other signs are located elsewhere. DAUGHTER and AUNT are initialized signs in neutral signing space. SISTER is at the nose. GRANDMOTHER has three variants, one of which is located below the eyes and may be a reference to glasses or trouble seeing, another is in neutral space, and is a compound sign where the first location is at the nose and the second part is the sign MOTHER/MUM at the forehead.

The male gender is somewhat more consistent than the female gender in AUSLAN as far as location is concerned. Many of the family signs were initialized and located in neutral signing space, so there is some pattern there, but it doesn't indicate gender. My conclusion is that there is no overarching language specific association pattern for gender, but rather a few partial patterns.

5.2.3 Auslan Compared to Other Sign Languages

Though much of the use of location in Auslan is similar to other sign languages, there are a few things worth mentioning. The location of the neck is used pervasively to refer to the concept of death or risk. The common picture across these signs related to death/risk is the image of a throat being cut. For example, the signs related to butchering, ABATTOIR/SLAUGHTER, BUTCHER, and CHOPS (a cut of meat), all picture cutting the throat of something. Similarly, the signs for KILL and MURDER also picture cutting the throat of someone. Also related, as a borrowing from English, the signs for CRIMINAL and CRUEL also use this image of cutting a throat. The connection is made clear by the fact that they're also given the option of CUT-THROAT as a gloss. A criminal can also be called 'a cut-throat' and

⁵⁸ NIECE is an initialized form of this variation of GIRL.

being 'cut-throat' can be synonymous with being cruel. The sign RISK is also located at the neck, which fits with the theme of death.

Also related to death, several signs are built off the image of being hung by a rope around the neck, such as the sign HANGING, and HANGOVER (which is a borrowing from English). The signs OBLIGATED and SLAVE picture being dragged by the neck, but not necessarily hung.

The neck also has some of the more common categories associated with it, such as thirst/desire, and breathing.

Moving to the cheek, one unusual category is tied to the British English idiom 'cheeky'. The signs CHEEK/RUDENESS, OBSTINACY, and RUDE all use this location. This makes perfect sense from a British English dialect, but is more opaque for the dialects of English that don't use this idiom.

At the chin there is an unusual case of homonymy, where the same form can mean: NOON, AFTERNOON, and DINNER. It seems that the sign is tied to the location of the chin due to the association of eating food, which is a standard use of that location.⁵⁹ There are other variants of the signs for NOON and AFTERNOON. I would presume that individual signers either wouldn't use the same sign for all three concepts, or would have another way of differentiating them. ASL also ties meals to times of day with the variations of BREAKFAST, LUNCH, DINNER that are compound signs: MORNING-MEAL, NOON-MEAL, and EVENING-MEAL.

There is also an unusual use of the forearm in Auslan. There is a group of signs at the forearm whose motion parameter starts at the back of the non-dominant hand (NDH). I don't believe there are any other groups of signs in the other sign languages here that regularly span from the NDH to the forearm. The signs in my data that do so are: ANTISEPTIC, CABBAGE, TOAD, SPIDER, WORM, and CONCEAL. Four of the signs are using the NDH to forearm location as the ground, CONCEAL uses it at a surface to hide under, and ANTISEPTIC is using

⁵⁹ LUNCH is also signed at the chin.

the location as just a reference to the body part. While regularly spanning both locations is uncommon, there are a lot of similar uses of the NDH and the forearm (especially when the NDH is configured in the B-handshape), such as picturing the ground, or a flat surface, often used for concealment.

In the Auslan data, there are 49 signs out of the 720 signs located on the body that I put in the unknown category because I could not figure out their use of iconicity, or the signs had a possible explanation that I was not very confident in. This is much higher than the 14 unknown signs for ASL. This is to be expected because I don't personally know Auslan, and ASL has been more extensively researched. That being said, even with the greater difficulties of researching Auslan, 93.2% of the signs analyzed here are iconic (86.7%) or non-arbitrary (6.5%). This shows that, for Auslan, there is a strong tendency for signs located on the body to have iconic or non-arbitrary motivation.

CHAPTER 6 HONG KONG SIGN LANGUAGE

The first records of formal Deaf education and sign language use in Hong Kong are from 1935 with the establishment of the Hong Kong School for the Deaf by missionaries. This was an oral school that banned the use of sign language within the classroom. However, the Deaf children still communicated with each other through signs after class and in the dormitories. Some of those signs are still in use today, though this was not modern HKSL. Later, in 1948 and 1949 a signing Deaf couple set up the first signing school (Overseas Chinese School for the Deaf and Dumb) and brought over the Nanjing and Shanghai variety of Chinese Sign Language. This mixed with the sign language already used by the Deaf in Hong Kong to create what is now HKSL (Sze et al. 2013). HKSL was first distinguished as a language separate from the Shanghai variety of Chinese sign language in 1993 by James Woodward. In this study he found a 66-68% similarity between Hong Kong signs and Shanghai signs. ASL, which is known to be a descendant of French Sign Language (LSF) mixed with indigenous signs from America, has a 61% similarity in basic vocabulary with LSF (Woodward 1978).

6.1 HKSL Dictionary – The Hong Kong Sign Language Browser

The HKSL dictionary called the HKSL Browser is managed by the Centre for Sign Linguistics and Deaf at the Chinese University of Hong Kong. The HKSL Browser is searchable in both Chinese and English. Because the signs are translated into English by the researchers of the dictionary I used their translations of the signs for this thesis. Sometimes the Chinese translation is referenced, but this mostly to discuss the signs that are borrowed from written Chinese. There were a few examples of signs located at the mouth because the Chinese character included the character for mouth.

As of November 2020, when I recorded the data for this sign language, there were 5482 entries in the dictionary. One of the strengths of this dictionary is it provides numerous sign variants and ranks them by most commonly used to least commonly used. I did not use this function much in this thesis because often the difference between variants did not change body location. However, if it was unclear where a sign was located, I checked the variants to clarify.

The dictionary includes a variety of semantic domains, but an idiosyncrasy of this dictionary is there are many legal terms. These are often not single signs, but rather are closer to phases or sentences. In order to keep the data to single signs, I skipped any sign that had more than two locations because single signs generally have a maximum of two locations.

6.2 HKSL Data Analysis

6.2.1 HKSL Iconicity Chart

| Location | Categories of Iconicity | Iconic Relationship (metonym or metaphor) |
|-------------|--|---|
| Head (43) | | |
| - Face (16) | fop: seeing (9), reading (2), cognition (1) | |
| | iup: wearable (2), camera (1) | wearable for sport (1) |
| | bp: face (1) | face for appearance (1) |

Table 5: HKSL iconicity by location

| - Side (19) | fop: cognition (1) | |
|-----------------|--|--|
| | iup: wearable (1) | wearable for person (1) |
| | bp: hair (4), head (1) | |
| | ap: mane (1) | ap for creature (1) |
| | qop: black (4) | |
| | eap: shaving hair (4) | shaving hair for male gender (4) ⁶⁰ |
| | ma: monkey scratching (1), sleep (1), pulling cord to stop bus (1) | monkey scratching for creature (1) |
| - Top (8) | fop: cognition (2) | |
| | iup: wearable (2), | wearable for person (1) |
| | ap: rabbit ears (2), bear ears (1) | ap for creature (3) |
| | bp: hair (1) | |
| - Back (0) | | |
| <u>Forehead</u> | fop: cognition (39), sweat (2) | |
| (71) | iup: wearable (11) | wearable for person (9), wearable for religion (1) |
| | bp: hair (1), face (2) | face for appearance for celebrity (2) |
| | asp: central (2), above (1), clockface $(1)^{61}$ | central for timeline (2), above for God (1), ⁶² clockface for time of day (1) |
| | ap: horns (6), antlers (1) | ap for creature (7) |
| | eap: fever (1), headache (1) | |
| | ges: salute (2) | salute for person (2) |
| | ??: FATHER'S DAY (1) | |

⁶² My HKSL language consultant, Yiu Aaron, gave the explanation that this sign, UNLUCKY, is related to divine blessing, and that the HKSL sign BLESSING is formed similarly.

⁶⁰ The male and female genders are not in the language-specific association category because the derived signs are all compounds, so the original iconicity is preserved in each of the signs. This is unlike in ASL or Auslan, where the iconicity is lost.

⁶¹ Six signs that I found in the HKSL dictionary make up this "clockface" category. They are NOON at the forehead, MORNING and AFTERNOON at the chin, and three compound signs derived from MORNING and AFTERNOON at the chin. The concept of TIME is often associated with wristwatches, so it seemed plausible that these signs could be associated with a clockface. If MORNING and AFTERNOON are associated with 6am and 6pm respectively then they would be at the bottom of the clockface (the chin) and NOON is at the top (the forehead). The paired locations of forehead and chin are used elsewhere to reference the entire face, such with the sign CELEBRITY which is signed at both the forehead and the chin and is associated with a person's appearance/reputation.

| <u>Eyes</u> (21) | fop: seeing (8), opening (3) | seeing/opening for surprise (4), opening for awakening (1) |
|-------------------|--|--|
| | iup: wearable (1), camera (3), gun (1) | |
| | bp: eye (2), eyebrow (1) | |
| | ap: compound eye (1) | ap for creature (1) |
| | qop: brown (1) | |
| <u>Ears</u> (14) | fop: hearing (5) | |
| | iup: wearable (7), phone (1) | wearable for female gender (6) |
| | bp: ear (1) | |
| <u>Nose</u> (21) | fop: inhale (1), sneeze (1), smell (5) | |
| | bp: nose (1) | |
| | ap: beak (1), elephant trunk (1) | ap for creature (2) |
| | asp: seeds (1) | |
| | qop: oily (2) | |
| | lsa: negative $(4)^{63}$ | flinging snot for disdain (1) |
| | ??: new (2), plastic (2) | |
| <u>Cheek</u> (32) | fop: eating (6), puckering (3), facial expression (1) | puckering for character (1) |
| | iup: phone (5) | |
| | bp: drooping jowl (5), face (3), pores (1), scar (1), mole (1) | drooping jowl for age (5), face for reputation (2) |
| | ap: whiskers (1) | ap for creature (1) |
| | asp: central (2) | central for timeline (2) |
| | qop: blue (1) | |
| | ges: close call (1) | |
| | ??: life (1) | |

⁶³ These signs also may be related to the mimetic action of flinging snot, which is a common iconic base for ASL signs at the nose. These signs seem to have both a similar form and meaning to the ASL signs in these categories.

| <u>Mouth</u> (96) | fop: eating (23), speaking (17), drinking (6), laughing (2), tasting (2), biting (1), smoking (1), vomiting (1), yawning (1) | |
|-------------------|---|---|
| | iup: balloon (1), cigarette (1), lipstick (1), pipe (1), toothpick (1), whistle (1) | whistle for person (1) |
| | bp: tooth (4), moustache (2), tongue (1), mouth (1) | moustache for person (1), moustache for person for character (1) |
| | ap: beak/bill (5), snout (2), moustache (1), tongue (1) | |
| | qop: red (2) | |
| | ma: wetting stamp/seal (1) | |
| | ges: blowing (1) | |
| | bor: Chinese character 'kou' (1), ASL KISS-FIST (2) | |
| | lsa: family $(9)^{64}$ | |
| | ??: holiday (1), know nothing (1), interest (1) | |
| <u>Chin</u> (55) | fop: speaking (9), eating (3) | |
| | iup: microphone (2), spoon (1) | |
| | bp: face (2), beard (2) | face for appearance for celebrity (1), beard for person (1) |
| | asp: clockface (5), central (1) | clockface for time of day (5) central for timeline (1) |
| | ap: sheep beard (3) | ap for creature (3) |
| | qop: thin (1) | |
| | eap: shaving (1) | |
| | ma: resting chin on hands (1), hook in mouth (1) | resting chin on hands for waiting (1), hook in mouth for attraction (1) |
| | bor: ASL: RED (7), Chinese character 'kou' (1) | |
| | lsa: family (2) | |
| | ??: (14) | |
| <u>Neck</u> (10) | fop: cough (1), thirst (1), vomiting (1) | |
| | iup: wearable (1) | |
| | bp: throat (1) | |
| | ap: giraffe neck (1) | ap for creature (1) |
| | eap: cut neck (2), touching (2) | touching for sexual assault (2) |
| | | |

⁶⁴ There is a very clear pattern of family members being signed on the mouth and chin. There are 11 of such signs in the data. However, I don't know the iconic origin of this sign, and neither did my language consultant, Yiu Aaron.

| Shoulders | iup: wearable (9) | wearable for person (4) |
|-------------------|--|---|
| (26) | bp: shoulders (13), back (1) | shoulder for responsibility (5), |
| (20) | bp. shoulders (15), Dack (1) | shoulder for responsibility for low |
| | | class profession (2) |
| | asp: central (8) | central for: timeline (7), behind (1) |
| | ma: shoulder throw (1) | shoulder throw for sport (1) |
| <u>Chest</u> (47) | iup: wearable (14), stethoscope (2), rifle (1), soap (1), x-ray (1) | stethoscope for person (2) |
| | bp: chest (10), chest and stomach (1), heart (1), lungs (1) | chest for self (10), heart for self for character (1) |
| | ap: stripes (1) | part for creature (1) |
| | eap: emotion (8), disease (1) | emotion: anxiety/fear (4), happiness (3), relief (1) |
| | ma: folding arms on chest (1) | folding arms for rest (1) |
| | bor: Chinese character for heart (2) | |
| | ??: (2) | |
| <u>Heart</u> (6) | bp: heart (6) | heart for self (3) |
| | | heart for self for character (2) |
| <u>Arms</u> (26) | | |
| - Upper (6) | iup: wearable (1) | |
| | bp: upper arm (2) | upper arm for power (2) |
| | ma: warming arms (1), embrace (1) | |
| | ??: grey (1) | |
| - Forearm | iup: wearable (7) | wearable for person (5) |
| (20) | bp: bicep (1) | bicep for work |
| | asp: surface (8), length (3) | surface for cover (3), length for measurement (2) |
| | eap: chicken pox (1) | |
| <u>Wrist</u> (12) | iup: watch (8), cuffs (1) | watch for time (8) ⁶⁵ |
| | eap: cut (1) | |
| | ma: taking pulse (2) | |
| | | |

⁶⁵ WATCH and the signs related to it are not included in the language-specific association category because they retains their iconicity throughout the signs.

| Stomach (9) | fop: eating (1) | |
|-----------------|--------------------------------------|---------------------------|
| | iup: wearable (2) | |
| | bp: stomach (2), fat (1) | stomach for intuition (1) |
| | eap: pregnant (1), surgery (1) | |
| | ma: monkey scratching (1) | ma for creature (1) |
| <u>Legs</u> (5) | iup: wearable (3), shopping cart (2) | |

6.2.2 HSKL Compared to Other Sign Languages

The body locations and the categories of iconicity associated to them in HKSL are mostly similar to what I've found in the other three sign languages. Various types of clothing and items are found at the body parts they're worn at or used at. All the functions of the body parts are where they would be expected.

Many of the metaphors and metonyms also fall along the usual lines. Body parts are used to represent various animals, such as horns and antlers at the head, or an elephant's trunk at the nose. Clothing and items are often associated with the person that uses them, such as a chef's hat for a chef, or a whistle for a police officer. Clothing is often also associated with gender, such as earrings to represent the female gender. The shoulder is metaphorically associated with responsibility. Emotions are experienced in the chest. The upper arm is associated with power, and the lower arm is associated with length and flat surfaces such as the ground or a ceiling. The wrist is associated with time by its relation to wristwatches. There are many others as well.

HKSL also has a few somewhat more unusual categories that contrast with the other sign languages. If my assessment is correct with the face being associated with a clockface, that is an uncommon use of the face, but it does fall within the normal bounds of iconicity that I have found where the shape of a body part can be analogous to the shape of thing it pictures. Shaving the side of the head was a cultural practice for men and so it is used to refer to the masculine gender. The cheek and the face are associated with one's fame or reputation, which is something that doesn't occur much in the other sign languages. The shoulder is associated with responsibility, which is common, but that is extended to refer to low-class professions as well. The location of the mouth is associated with signs that include the Chinese character

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'mouth'. This is similar in concept to initialization in ASL where the first letter of a written English word is used as the handshape for sign.

In HKSL, 27 out of 494 total signs were categorized as having unknown (??) iconicity. That is 94.5% of the signs located on the body in HKSL have either iconic (88%) or non-arbitrary (6.5%) motivation. This is a bit higher than Auslan and KSL, which is likely because I was able to meet with a Yiu Aaron, a Deaf man from Hong Kong, to discuss the data. This shows that, for HKSL, there is a strong tendency for signs located on the body to have iconic or nonarbitrary motivation.

CHAPTER 7 KOREAN SIGN LANGUAGE

Not as much background information is available on Korean Sign Language (KSL) compared to the other sign languages discussed thus far. Most of the information comes from Fischer and Gong (2010). KSL is historically related to Japanese sign language (JSL) because of the Japanese occupation from 1905 to 1945. However, sign language has been in use in Korea since 1889, so the language predates Japanese influence somewhat. According to the Ethnologue (Gordon 2005), KSL has been used in Korean schools since 1908.

KSL has had an explosion of development activities during the 2000s (Byun and Plumlee 2021). The Sign Language Interpreting Center in Korea was established in 1999. The National Institute of the Korean Language with the Ministry of Culture, Sports, and Tourism have worked on the standardization of KSL starting in 2000, and the first KSL dictionary was published in 2005. National certification of KSL interpreters was established in 2006. In 2016 KSL was legally recognized as one of Korea's official languages.

7.1 KSL Dictionary

The KSL dictionary was started by the Ministry of Culture, Sports and Tourism and the National Institute of the Korean Language in 2005. It was created as part of the effort to promote the standardization of Korean Sign Language, which started in 2000. However, the KSL standardization project received criticism because it was not documenting KSL as used by the Korean Deaf (Lee 2017:69-70). Hyeon-Hwa Lee states that some of the problems were that signs included in the dictionary were selected by a limited number of committee members and

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some signs were even coined for the dictionary (Lee 2017:72). Further, the headwords in the dictionary were based on spoken Korean instead of the signs the Korean Deaf use, and there was not documentation of language variation.

Despite the problems with the initial KSL dictionary, it now being updated and improved by sign language linguists. The dictionary went through an overhaul in 2020. The headwords now accurately reflect the Korean Sign Language word (Byun and Plumlee 2021:6). All the signs that were coined for the dictionary were deleted. While the previous dictionary was approved by a committee, in the new version, the Korean Deaf Association, the Korean Deaf themselves and sign language interpreters were consulted to ensure the accuracy and acceptability of the dictionary. Since the KSL dictionary has been overhauled it now reflects KSL as used by the Deaf community in Korea (Hong 2021).

One of the difficulties in using this dictionary is that it provides Korean glosses but does not provide an English translation. Since I don't know Korean, I largely had to rely on Google Translate or Papago⁶⁶. This gave some problematic results, so I tried to include all the relevant translations of the gloss. There are many homophones in Korean, which can give some nonsensical results, however, a bit of judgement would usually make quick work of the problematic options. For example, the sign that is glossed 눈 'nun' can be translated as 'eye', or 'snow'. The sign itself is a compound of pointing to the teeth and something fluttering downward with the 5-hand in neutral space moving downward while wiggling the fingers. Of the two translations 'eye' and 'snow', the first one could be easily ruled out, and the second fit perfectly. This conclusion is corroborated by the KSL dictionary which provides this sign as a compound sign made up of two signs: 'white' and 'down'.

Another issue with the KSL dictionary is that it does not distinguish between neutral space and the chest location in its location search list. In order to get a better sampling of signs

⁶⁶ The web addresses are translate.google.com and papago.naver.com.

located at the chest, I doubled the amount of signs I normally searched through for that location. Even still, the chest location is noticeably shorter than in other sign languages.

As already mentioned, the KSL dictionary was less accurate before the revisions in 2020. My data for the nose, neck, eyes, and arms were from 2019, while the other locations are from 2021. Since the method of updating the dictionary was the deletion of the unacceptable signs, I also went through my data and deleted any sign that did not still appear in the dictionary. This resulted in fewer signs from the KSL dictionary compared to the others. Regardless, the 600 signs in the KSL data is more than enough to show that there is a strong tendency for signs located on the body to have iconic motivation.

7.2 KSL Data Analysis

7.2.1 KSL Iconicity Chart

| Location | Categories of Iconicity | Iconic Relationship (metonym or metaphor) |
|-------------|---|--|
| Head (52) | | |
| - Face (34) | fop: seeing (12), facial expression (3) | facial expression for: brazen (2), emotion: sadness (1) |
| | iup: mask (2), book (1), gun sight (1) | |
| | bp: face (7) | face for: appearance (2), reputation (1), movie poster for person $(1)^{67}$ |
| | asp: behind bars (3) ⁶⁸ | behind bars for person (1) |
| | qop: smooth (3) | |
| | ??: 청주 'rice wine' (1), 개성 'individuality' (1) | |

Table 6: KSL iconicity by location

⁶⁷ The sign glossed MAIN CHARACTER is picturing a face in the middle of a poster.

⁶⁸ These signs related to prison are difficult to categorize. Essentially they are picturing someone being behind prison bars. If the iconic base is that you are the prisoner seeing the bars, then it would be fop: seeing or iup: prison bars. If the iconic base is someone else seeing you (focused on your face) behind bars, then it may be asp: behind bars referring to the position of the bars relative to the signer.

| $C: J_{\alpha}(10)$ | for and (1) moding (2) questing | |
|---------------------|---|--|
| - Side (18) | fop: seeing (4), reading (2), sweating (2) | |
| | iup: fan (1) | |
| | asp: central (1) | central for timeline (1) |
| | qop: black (2) | |
| | eap: feel air on face (1) | |
| | ma: lifting weights (2), sleep (2), ?cooing (at baby) (1) | |
| - Top (0) | | |
| - Back (0) | | |
| Forehead (88) | fop: cognition (52), facial expression (1) | |
| | iup: wearable (7) | wearable for person (4) |
| | ap: crest (3), rhino horn (1) | ap for creature (4) |
| | asp: clockface (4), height (4) | clockface for time (4) |
| | eap: illness (4) | |
| | ma: bow (2), feeling temperature (1), shielding eyes (1), wiping sweat (1) | |
| | bor: English: 'birdie' (1) | |
| | ??: (6) | |
| <u>Eyes</u> (58) | fop: seeing (29), crying (4), eye closing/opening (2) | seeing for: new (4), person (3), surprise (1) |
| | iup: camera (1), eyedropper (1), eyepatch (1), microscope (1), pendulum (1) | |
| | bp: eyes (6) | |
| | asp: central (11) | central for timeline (11) |
| | ??: 호텔 'hotel' (1) | |
| <u>Ears</u> (36) | fop: hearing (20) | |
| | iup: wearable (5), phone (3), headset (2), conch (1) | |
| | bp: ear (2) | |
| | ma: cracking walnut (1), cutting ears off (1) | |
| | ??: 농 'farm' (1) | |
| | | |

| | - | |
|-------------------|---|--|
| <u>Nose</u> (32) | fop: exhale (4), smell (3), sigh (1) | exhale for: difficult (2), frustration (1), insignificant (1) |
| | iup: handkerchief (1), tissue (1) | |
| | bp: nose (7), snot (1) | nose for: person (4), good/beauty (2), dirty (1) |
| | ap: pig snout (1), rhino horn (1) | ap for creature (2) |
| | asp: pointed (1), straight (1) | |
| | ma: blowing snot (1), finger wiggle (1), nose wiggle (1), wiping nose (1) ⁶⁹ | blowing snot for dislike (1), finger wiggle for mocking (1), nose wiggle for jealous (1), wiping nose for illness (1) |
| | lsa: good (3) | |
| | ??: 모르는 척하다 'pretend not to know' (1), 천하다 [賤-] 'lowly' (1), 성병 [性病] 'STD' (1) | |
| <u>Cheek</u> (55) | fop: chewing (2), jaw clench (2), eating (1), facial expression (1) | facial expression for shame (1) |
| | bp: cheek wrinkles (7), dimples (2) | cheek wrinkles for old (7) |
| | ap: mane (1), tiger stripes (1) | ap for creature (2) |
| | asp: ?pepsi logo (1) | |
| | qop: blue (10) ⁷⁰ , green (2), brown (1), oily (2), fat (1), skinny (1) | |
| | eap: cheek strike (3), bubbly drink (1), cheek flush (1) | |
| | ma: slap bug (3) ⁷¹ , patting cheek (1), scratching cheek (1) | scratching cheek for creature |
| | ges: mocking (1), ?suspicion (1) | |
| | bor: ASL: WINE (1), Korean: 예 'yes' (1) | |
| | ??: (3), false (3) | |

⁶⁹ Some of these signs could be gestures, but that is a more specific claim that I am hesitant to make without full knowledge of Korean gestures.

⁷⁰ The color blue refers to cheeks turning blue from cold (or hypoxia). The color green is a combination of blue and leaf.

⁷¹ The iconic base for the signs glossed BEE, HONEY, and MOSQUITO have two actions done at the cheek, first the bug bites (eap), then you slap the bug (ma).

| <u>Mouth</u> (61) | fop: speaking (10), eating (8), drinking | |
|-------------------|--|---|
| | (4), taste (4), blowing (2), licking (1), | |
| | singing (1), spitting (1) | |
| | iup: microphone (1) | |
| | ap: beak (2) | beak for creature (2) |
| | asp: central (1) | central for timeline (1) |
| | qop: white (4), yellow (3), red (2), pink (1) | |
| | ma: brushing teeth (1), putting pen in mouth (1), ?licking paws (1), | licking paws for creature (1) |
| | ??: (10), stone (3) | |
| <u>Chin</u> (50) | fop: speaking (9) drink (3), eating (3), taste (3), facial expression (3), spitting up (1) | |
| | iup: wearable $(1)^{72}$ | |
| | ap: butt (1), tentacles (1) | tentacles for creature (1) |
| | asp: central (2), ?clockface (1) | ?clockface for time (1) |
| | eap: get hit (1) | |
| | ma: resting on chin (2), shaking head (1) | |
| | ges: ?dislike (1) | |
| | lsa: color (5) | |
| | ??: (10), poverty (2) | |
| <u>Neck</u> (25) | fop: blood flow (3), coughing (1), speaking (1) | |
| | iup: collar (1) | collar for person (1) |
| | bp: head (3), neck (2), two tumors on the neck $(1)^{73}$ | head for rank (3), rank for person (2) |
| | eap: thirst (4), biting the neck (1) | thirst for desire (3) |
| | ma: cutting throat (3), chopping neck (1), recoiling in disgust | cutting throat for death (3), chopping neck for risk (1) |
| | bor: Korean idiom: 고비를 넘기는 것 'to be over the hump' (3) | |

 $^{^{72}}$ The sign 팬티 'underpants' uses this location euphemistically similar to ap: butt.

⁷³ The sign glossed SIMULTANEOUS is highly unusual. It may be a reference to a popular Korean folklore about a man with two tumors on his neck: https://folkency.nfm.go.kr/en/topic/detail/6021.

| Chauldana | i_{1} in i_{1} in i_{2} in i_{2} | warehig for remit (2) |
|-------------------------|--|---|
| Shoulders (17) | iup: wearable (7) ⁷⁴ | wearable for: rank (2), responsibility (1), person (1) |
| | bp: back (2) | |
| | asp: length (3), central (1) | length for measure (3), central for timeline (1) |
| | qop: ?hard (1) ⁷⁵ | |
| | ma: shoulder throw (1), weightlifting (1) | ma for sport (2) |
| | ??: 부자 'wealth' (1) | |
| <u>Chest</u> (17) | iup: wearable (3), guitar (1) | |
| | bp: chest (8) ⁷⁶ | chest for self (8) |
| | eap: emotion (4) | emotion for: fear (2), anger (1) |
| | ??: 위험,험하다 'danger, it's tough' (1) | |
| Heart (2) | iup: wearable (2) | wearable for name (2) |
| Arm (36) - Upper Arm | iup: wearable (4) | wearable for rank (1), wearable for rank for person (3) |
| (9) | bp: bicep (2) | bicep for power (2) |
| | asp: camel humps (1), surface (1) | camel humps for creature (1) |
| | eap: injection (1) | |
| - Forearm | iup: wearable (4) | wearable for rank for person (3) |
| (26) | bp: arm (1) | arm for power (1) |
| | asp: surface (5), length (1), left (1), right (1), printing press (1) | length for measure (1) |
| | ma: scratch arm (2), roll up sleeve (1) | |
| | lsa: good (6) | |
| | bor: ASL: COMPUTER (1) | |
| | ??: 다니다 'attend' (1), 내력 'history' | |
| | (1) | |
| <u>Elbow</u> (1) | asp: surface (1) | |
| <u>Wrist</u> (2) | iup: wearable (1) | wearable for rank for person (1) |
| | ma: scratch arm (1) | |

⁷⁴ One sign is ambiguous: 신사 'gentleman' could be depicting a gesture, but a wearable item seems more probable.

⁷⁵ If this is the iconic base for the sign glossed HARDTACK, it would be analogous to how the bottom of the chin (bone) is used for hardness in ASL.

⁷⁶ The two signs related to knowing were ambiguous.

| Stomach (36) | fop: birth (7), emotion (3) | emotion for: anger (2), hesitance (1) |
|--------------|--|---------------------------------------|
| | iup: wearable (3) | wearable for person (2) |
| | bp: stomach (16), liver (1), | stomach for heart (13) ⁷⁷ |
| | qop: skinny (1) | |
| | eap: illness (2), feeling warm (1) | |
| | ma: keep to one's self (1), tapping stomach (1) | tapping stomach for creature (1) |
| Waist/Leg | fop: bowel movement (1) | |
| (29) | iup: wearable (10), bag (1), diaper (1), handbag (1), palanquin (1) | wearable for person $(4)^{78}$ |
| | bp: lower back (1), thigh (1), waist (1) | |
| | asp: behind (1) | |
| | ma: pulling with effort (2), swing tennis racket (2), bowling (1), holding the stomach in laughter (1), practice taekwondo (1), spreading seed (1), using a wheelchair (1), weightlifting (1) | pulling with effort for character (2) |

7.2.2 KSL Compared to Other Sign Languages

Several locations are used differently in KSL than the other sign languages. The location of the nose seems to vary in its cultural connotations from language to language, but Korean definitely seemed to have a far more varied usage of it than the other sign languages. The concept of good or attractive is associated with the nose. Because Koreans typically have flat noses, pointed noses are considered particularly attractive.⁷⁹ However, the nose is also used for many negative qualities such as dirty, jealousy, and dislike. Interestingly, all these uses are fully iconic. Dirty is iconically associated with snot, jealousy is a mimetic action of a typical nose wiggle used to show jealousy, and dislike is the mimetic action of intentionally blowing

⁷⁷ Here 'heart' does not refer to the organ, but the place that holds the conscience/intuition. This is similar to the idea of 'gut' in English.

⁷⁸ The sign for MONK pictures tying a belt around the waist. There are several compounds derived from this sign.

⁷⁹ Any information on Korean culture was either included as an explanation of the sign in the KSL dictionary itself, or simply from asking one of my Korean friends Charlie Kim.

snot at something.⁸⁰ Another interesting use of the nose is that it can be pointed at to refer to the self. This is much like how most sign languages (including KSL) can point to the chest to refer to the self. This usage is also associated with learning which is linked to the idea of the teacher pointing at you in class.⁸¹

Color signs are often located on the body, but KSL has more color signs located on the body than the other sign languages. The color signs in KSL are all located at the mouth, chin, or cheek. Both 'white' and 'yellow' are located at the mouth. Pointing to the teeth for the color white is common enough, but the color yellow also seems to be associated with the teeth, which makes perfect sense for those of us who drink too much coffee. Uniquely among my data, the color blue is associated with the cheeks. Even in English we talk about someone's cheeks turning blue due to cold (or lack of oxygen). Related to blue, the sign for green is also at the cheeks and seems to be a derived compound leaf-blue. All eight signs for color are on the body: red, pink, white, yellow, blue, green, brown, and the sign 'color'.

ASL has a vast system of initialization of signs linking the handshape to an English word. KSL seems to have less of this, but it's still possible. The sign Q 'yes' directly imitates the form of the written Korean word. The signer's head represents the circle, and the hand is placed at the cheek in a configuration similar to the shape of the written word. This handshape is particularly marked and is not in any other sign in the KSL data. Using a body part as a orthographic symbol is not common in my data. In ASL I only know of one sign (which is not part of my data) that ties directly to a written English word in this way. WOW can be signed with both hands on either side of the head in a 'w' handshape and the mouth making a round 'o' mouth shape.

⁸⁰ Some of these actions may be better classified as gesture, but since I am not as familiar Korean gestures I left them as mimetic action.

⁸¹ The KSL dictionary gave this explanation for the iconic base of the sign.

The 'heart' location is a common location for signs in many sign languages, especially for signs associated with love, character, or emotion. However, in Korean, the 'heart' is associated with the location of the stomach and is related to signs concerning the intuition and conscience. This is similar to the concept of the 'gut' in English.

While in most of the other sign languages the timeline is associated primarily with the shoulder, in KSL it was commonly located at the side of the eyes. This is unusual, but not entirely unexpected. Signs referring to the timeline often vary in location even within the same sign language. Other locations observed are at the side of the body, at the cheek, and at the forehead.

In KSL 48 out of 601 total signs are categorized as having unknown (??) iconicity. This is a higher ratio of unknown iconicity signs than the other sign languages, which, given all the difficulties, is exactly what I expected. Likely, this number would be decreased if a native user of KSL was analyzing the data or if there was an etymological dictionary available like in ASL. Even still, 92% of the signs located on the body in KSL have iconic (88.9%) or non-arbitrary (3.1%) motivation. This shows that, for KSL, there is a strong tendency for signs located on the body to have iconic or non-arbitrary motivation.

CHAPTER 8 A FRAMEWORK FOR ANALYZING ICONICITY AND A NEW RELATIVE OF ICONICITY

8.1 An Iconicity Chart

Iconicity is complex. It is one thing to intuitively grasp that there is an association between form and meaning, and it is another thing to show exactly how the form relates to the meaning step by step, parsing out exactly how each parameter is contributing to the iconicity of the sign. It is useful to do this in chart form.

Let's start with a simplified version of an iconicity chart for the ASL sign BIRD pictured below in figure 15 below.

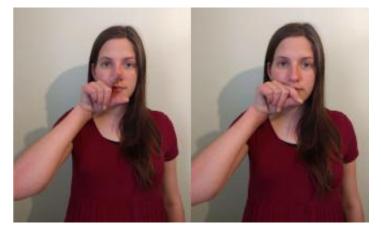


Figure 15: BIRD (ASL)⁸²

⁸² This is a repeat of figure one for ease of reference.

| Sign | Form | Iconic Relationship | Iconic Base | → | Meaning |
|---------------|--------------|------------------------|-------------|----------|---------|
| BIRD (ASL) | (parameters) | resemblance | bird's beak | metonym | "bird" |

Table 7: Simplified chart: BIRD (ASL)

The left-most column gives the sign in gloss form. The next column lists each of the parameters that form the sign (here it is condensed). The iconic relationship column describes how the parameters are related to the iconic base of the sign (the mental image behind the form). In the simplest case, we can say the relationship is just one of resemblance, but more detail can be added later. The \rightarrow column is the relationship between the iconic base and the meaning. In this case the picture of a bird's beak is related metonymically with the meaning "bird". The bird's beak is a part of the bird that represents the whole bird.

Such a chart can be developed in more detail, as in Table 8.

| Sign | Form | Iconic Relationship ⁸³ | Iconic Base | | > | Meaning |
|---------------|--------------------------------|--------------------------------------|------------------------------|------------|-------------|---------|
| BIRD (ASL) | HS: 'g' | resemblance | narrow beak ⁸⁴ | \bigcirc | metonym | "bird" |
| | Ori: palm away from self | resemblance | beak facing forward | (bird's | | |
| | Mov: open/close | resemblance | beak opening and closing | beak) | | |
| | Loc: mouth | resemblance (ap) | bird's mouth | | | |

Table 8: Iconicity Chart: BIRD (ASL)

In this chart the "form" column has a row for each of the relevant parameters in the sign: handshape (HS), orientation (Ori), movement (Mov), and location (Loc). Each parameter is

⁸³ In this column, more detail is given to the nature of the resemblance between form and meaning for the location parameter because that is what has been described in detail in this thesis. The other parameters are simply related by the term resemblance because that is the most general relationship between form and meaning for iconicity.

⁸⁴ We know this is a beak because we know the meaning of the sign. If we did not know the meaning of the sign, the handshape could represent any number of things. This sign is not fully transparent.

linked to the iconic base by a relationship of resemblance. All the parameters are working together to form one complete image of a bird's beak, but it is also possible to show what role each parameter is playing in making up that image. Here, the location row adds more detail about the nature of the resemblance. The categories of iconicity described in section 3.1 are different types of resemblance relevant to the location parameter in a sign. In this case, the use of the location is an analogous part, where the mouth of the signer represents the mouth of the bird.

As mentioned, in this sign all the parameters are working together to form related to a single iconic base. I am calling this multi-parameter iconicity. The change of any of the parameters would change the whole image. For example, the ASL signs BIRD and DUCK are minimal pairs and differ only in handshape. The two-fingered beak-like handshape for BIRD simply adds a 3rd finger. This change in handshape changes the iconic contribution of the handshape parameter from "narrow" to "wide".

In other signs, the individual parameters can make one or more contributions to the iconic base of the sign. Take, for example, the ASL sign I-CALL-YOU:

| Sign | Form | Iconic Relationship | Iconic Base | | \rightarrow | Meaning |
|--------------|--|---|----------------------|--|-----------------|-----------------|
| I- CALL- | HS: 'y' | resemblance | phone shape | holding a phone at the | mty. | "I call you" |
| YOU (ASL) | Ori: palm toward self | resemblance | phone orientation | cheek | | |
| | Loc1: cheek, mouth, and ear ⁸⁵ | resemblance (iup) | phone location | | | |
| | | convention with resemblance ⁸⁶ (bp for self) | 1st person | "I to you" (source-goal agreement) ⁸⁷ | direct corr. | |
| | | convention with resemblance (as) ⁸⁸ | source | | | |
| | Loc2: neutral space | convention with resemblance | 2nd person | | | |
| | | convention with resemblance | goal | | | |
| | Mov: straight path | (null) ⁸⁹ | | | | |

Table 9: Iconicity Chart: I-CALL-YOU (ASL)

This sign has clearly has a much more complex relationship between its form and meaning, but it is still very iconic. Perhaps the easiest way of explaining this chart is that there are two images in the iconic base that are working together. The first image is the signer holding a phone to their cheek, and the second image is a source-goal agreement from the 1st to 2nd person. For the first image, the chart is similar to the BIRD chart 9.1.2. All the parameters are

⁸⁵ The body location for this sign meaningfully spans three locations: the ear, cheek, and mouth. All the locations are used in the operation of a telephone.

⁸⁶ In this example the location of the chest is conventionally associated with the 1st person, but it is also iconic. This is why it is labelled "convention with resemblance".

⁸⁷ For this sign, the source to goal agreement is unidirectional "I to you" because the sign is located on the body. For other directional verbs that aren't located on the body, such as THROW (ASL), it is important to separate the source and goal from their pronominal referents because the 1st person could be the goal rather than the source.

⁸⁸ This is the use of the cheek as a position rather than as the cheek itself. This is similar to using the cheek as a position on the timeline.

⁸⁹ Null means that the parameter in question does not seem to be contributing to the iconic base or the meaning.

being used together to form one image, which is a person holding a phone to their cheek. For the second image of the source-goal agreement, each of the parameters contain individual meaning, and, in this case, each parameter actually contains multiple distinct meanings simultaneously. Notice that there are two locations in this sign. Location 1 is the cheek, and location 2 is the part of neutral space referencing the 2nd person. Location 1 is subdivided into three parts: this is three different uses of the same parameter. One aspect of the image is the phone at the signer's cheek. Another involves the use of the body as 1st person (cf. Meir et al. 2006). The third is the use of the location as the grammatical source for the source-goal agreement. Location 2 is subdivided into two parts. The first is the use of the neutral space as the 2nd person, and second is its use as the grammatical goal. The first image is related to the meaning metonymically, and the second image is related by direct correspondence, since the "I to you" source-goal agreement is part of the meaning of the sign.

Some signs have a more complex iconicity chain associating the iconic base to the meaning. Theses signs often have a metaphorical relationship between their iconic base and meaning. Example of this is the sign STUBBORN in ASL which pictures a donkey's ear and is metaphorically tied to a character trait.

| Sign | Form | Iconic Relationship | Iconic Base | | → | | | Meaning |
|----------|--------------------------------|------------------------|-----------------------|----------|----------|----------|-------|------------|
| STUBBORN | HS: 'b' | resemblance | wide ear | donkey's | mty. | "donkey" | mtph. | "stubborn" |
| (ASL) | Ori: palm away from self | resemblance | ear facing forward | ear | ear | | | |
| | Mov: close | resemblance | ear flapping | | | | | |
| | Loc: temple | resemblance(ap) | at donkey's head | | | | | |

Table 10: Iconicity Chart: STUBBORN (ASL)

The sign STUBBORN and DONKEY are signed the same way. Both signs picture a donkey's ear flapping as their iconic base, but while DONKEY can simply be related to its meaning by metonymy, STUBBORN requires another step of a metaphorical relationship. In English there is the idiom "stubborn as a mule", where the animal is metaphorically associated with the character trait. The metaphor here in ASL is analogous to the English one.

8.2 Form to Form Resemblance – A Relative of Iconicity?

There is one interesting phenomenon that looks and functions a lot like iconicity which needs to be handled somewhat differently in such an analysis.

I call it "form-to-form resemblance", and it comes up quite often in the languages in this thesis. In form-to-form resemblance, a symbol's form does not resemble its meaning, but rather its form resembles another linguistic form (which in turn may have an iconic relationship to its meaning). In fact, it could be considered as a close cousin to iconicity, because it is nonarbitrary, which is why it is included along with iconicity in the analyses in this thesis.

I start with an example. Take the ASL sign UNCLE:

| Sign | Form | Iconic Relationship | Iconic Base | → | | | Meaning |
|----------------|---------------------|--|----------------------------|-------------|-------------------------------|--------------------------------------|-----------------------------|
| UNCLE (ASL) | HS: 'u' | convention with resemblance | English letter 'u' | metonym | written English "uncle" | convention without resemblance | "male sibling of your |
| | Loc: forehead | language- specific association ⁹⁰ | BOY (ASL) ⁹¹ | direct corr | responden | ce ⁹² | parent" |
| | Ori + Mov: twist | (null) | | | | | |

Table 11: Iconicity Chart: UNCLE (ASL)

In this sign, the handshape parameter and location parameter are working separately. Because of this, the iconic base is also not one unified image, but a collection of multiple

⁹⁰ This language-specific association is historically iconic, but is synchronically conventional. It is discussed in detail in section 4.2.2.

⁹¹ An entire iconicity chart could be inserted here for the sign BOY (which originally had the general meaning of masculine gender regardless of age), but that would make the chart unnecessarily large.

⁹² Since one of the meanings of BOY is simply masculine gender, this is direct correspondence.

images. The handshape is in some sense iconic for the English letter 'u', which is associated metonymically with the written⁹³ English word "uncle". It is worth noting that the English word "uncle" is associated to its meaning by arbitrary convention with no iconicity. For the orientation and movement parameters in this sign, the two parameters are likely filler so that the sign is phonologically well-formed. They do not seem to be connected in any way to meaning. Interestingly, the sign UNCLE has regional variants with different movements, such as a small circle. It seems plausible that variation is more likely in semantically null parameters.

There are a few difficulties with the iconicity of the handshape here. I mentioned that the handshape is "in some sense" iconic for the English letter 'u', because it's clear that the manual letter resembles the letter 'u'. However, this is technically not iconic, since the definition of iconicity is that the form resembles the meaning, and here the form is not resembling the meaning but rather a form in another language. This is a new type of resemblance that I have not seen discussed elsewhere. I am calling it "form to form resemblance".⁹⁴ In this sign, the manual letter 'u' is associated with the English letter 'u' by a form to form resemblance, and the English letter 'u' is metonymically related to the English word "uncle", but the word "uncle" is not iconically related to its meaning since there is no resemblance between the form and meaning. The handshape in UNCLE is resembles English word "uncle" but does not resemble the actual meaning of UNCLE which is "the male sibling of your parent".

This form to form resemblance occurs in most (but not all) of the manual letters of the alphabet in ASL and the corresponding initialized signs, but it also occurs with many other

⁹³ It's important to distinguish that this is the written form of English, iconicity can be taken from the lipread form of English if two words are lipread the same. An example of this latter one would be the CABBAGE/GARBAGE pair of signs that both derive their iconicity from a head of cabbage but are lipread the same.

⁹⁴ I had been toying with the idea of calling this "iconicity of form" because of its similarity to iconicity, but this would likely have been more confusing than helpful.

signs. For the ASL numbers, some are iconic (numbers 1-5), some have a form to form resemblance with their corresponding Arabic numerals (eg.: 0, 6, 9, 11), others have a form resembling another type of form: 7, 8, and 9⁹⁵ are made by analogy to the number 6, and the ASL sign 100⁹⁶ is made by analogy to the number 1 and the Latin word "centum", which means one hundred.

There are families of signs that are derived from an original sign, such as the ASL gender signs like UNCLE. These are all examples of form to form resemblance. For example, many signs in ASL that refer to groups of people are located at the ipsilateral and contralateral sides of the upper chest and are often initialized. Examples are STAFF, MEMBER, COMMITTEE, BOARD, CONGRESS, and many others. Many of these signs have a form to form resemblance for the English words the manual letters represent, but they are also founded on a form to form resemblance of location. I believe they are all derived from the sign WE, which is iconic.

Signs borrowed from other sign languages can be considered a type of form to form resemblance. A borrowing may not be an exact copy of the sign, but the borrowed sign is still related to the sign from the source language by a form to form resemblance. In some cases the iconicity from the source language is still retrievable in the language of borrowing, but this is not always the case, especially when the borrowed sign has some language-specific associations or culture specific iconic motivations. An example of this is that Kenyan Sign Language has borrowed the initialized sign PARENTS from ASL.⁹⁷ The sign is located at the forehead and the chin in ASL because those are the locations of the signs FATHER and MOTHER and are the

⁹⁵ Note that 9 has two different types of form to form resemblances: it is formed by analogy to the manual number 6 and also resembles the form of the Arabic numeral in handshape (but not orientation).

⁹⁶ The ASL sign 100 is a combination of the number 1 and the letter 'c'.

⁹⁷ In specifically selecting sign languages that are not related to one another there's not as many complex examples of borrowing as there are in sign languages like Kenyan Sign Language, which is related to ASL.

locations of the masculine and feminine gender in ASL. In Kenyan sign language the location for the masculine gender is the chin, iconically associated with beards, and the feminine gender is at the ipsilateral upper chest being iconically associated with the breast. The forehead is not tied to a gender at all and the chin is tied to the opposite gender in Kenyan Sign Language as it is in ASL. This iconicity is likely to be opaque to many Kenyans unless they know ASL, and especially since they may not even know that the sign is borrowed from ASL.

Iconicity is a complex phenomenon. Intuitive understandings of iconicity can be misleading. This form to form resemblance in signs can easily be mistaken to be iconicity of meaning, although it seems to be a closely-related phenomenon which, as I've demonstrated, can be incorporated into the same analytical framework. Iconicity charts like those presented here can help to show in detail the step-by-step association from form to meaning in a sign. They can show which parameters are iconic, which are not iconic, and which exhibit a form to form resemblance. These charts are also able to also show the iconicity of agreement within an inflected verb. With further development this style of chart should be able to show every meaning that each parameter holds within a sign. Such charts also highlight the importance of the iconic base within an iconic sign. The form is primarily related to the iconic base and secondarily related to the meaning, rather than directly mapped to the meaning. The different types of iconicity are easily incorporated into the chart as types of resemblance. Presumably all the other parameters can be analyzed into different categories of resemblance as has been done here.

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CHAPTER 9 CONCLUSION AND APPLICATIONS

Based on the previous chapters, the tendency for signs located on the body to have iconic or non-arbitrary motivation seems to hold true very consistently. Across these four sign languages 92.0-98.1% of the signs located on the body have iconic (86.7%-90.0%) or nonarbitrary (3.1%-8.1%) motivation. The data supports the claim that universally, there is a strong tendency for signs located on the body to have an iconic or non-arbitrary motivation especially in their historical form. Table 12 below is a summary of this data.

Table 12: Percentage Total Motivated Signs

| | ASL | Auslan | HKSL | KSL |
|---------------|-------|--------|-------|-------|
| Iconic | 90.0% | 86.7% | 88.0% | 88.9% |
| Non-Arbitrary | 8.1% | 6.5% | 6.5% | 3.1% |
| Total | 98.1% | 93.2% | 94.5% | 92.0% |

The three non-arbitrary sign categories are identified in section 3.1 as language-specific association (lsa), borrowing (bor), and gesture (ges). Iconicity is defined as a relationship of resemblance between form and meaning. These three categories have a relationship that is similar to iconicity, but falls outside of the standard definition. Theirs is a relationship of resemblance between one form and a related form. This a new kind of relationship that is discussed further in section 8.2.

The percentages of iconic and non-arbitrary signs tend to be higher with sign languages I am more familiar with and with access to language informants or etymological information. It is reasonable then to expect that with better information, most sign languages would be closer to the 98.1% mark like ASL. I cannot claim that universally *all* signs located on the body are

iconic or non-arbitrary in their historical forms, there always are a few exceptions, but the tendency is very strong.

9.1 Ideas for Further Research

Since a cross-linguistic analysis of body locations has provided so much good information, it seems natural that this kind of analysis could be extended to all the different sign language parameters in order to come up with something along the lines of a universal catalogue of sign language iconicity.

I also suspect that this type of analysis could be applied to all locations for signs with the exception of the front middle neutral signing space, not just those on the body, with similar results. Based on informal observation, it seems that signs with no iconic tie to location tend to be located in the front middle of the neutral signing space, which would be the default location, and any deviation from that location, such as the non-dominant hand, and even with other locations in neutral space (above, below, or to one side), almost always requires a motivation.

9.2 Application: Analyzing Iconicity/Etymology

In this thesis I analyzed the iconic use of location for thousands of signs in four different sign languages. After a while common patterns clearly emerged, and thus it became easier to differentiate between more and less probable explanations for iconicity. Based on this experience, this section offers helpful principles for analyzing the iconicity and etymology of signs to recover either the historic or synchronic iconic base of the sign.

Recovering the iconicity of a sign can be difficult. It is inherently subjective and after-thefact, unless one is able to directly interview the person who coined the sign and ask them what iconic base they were thinking of. Even if that was possible, it still wouldn't be a flawless method because, as the sign is passed from signer-to-signer the form can change, and the iconic base can be re-interpreted⁹⁸. However, there are a few principles that can help in this process of analysis.

The first principle is to check the historical form, if possible. A sign that was historically iconic may have lost its iconicity in its current form. For example, the ASL sign BRAG, which is signed with both hands in the A-handshape tapping at either side of the waist, is iconically opaque because the waist has little to do with speaking, pride, or the self. However, according to Shaw and Delaporte (2015:32), this sign came from a French sign ÉGOÏSME which was signed at the chest with only one hand. The chest is extensively used to refer to the self. In fact the historical form, which uses the A-handshape to tap the chest two or three times, is simply a reduplication of the sign MYSELF. In the historical form the handshape and location both have clear iconicity. What is unclear is why the sign got lowered to the waist and became two-handed.

This example shows why, before theorizing about iconicity, one should if possible check any available historical records to see how the sign used to be formed, and what it used to mean. This is made easier for ASL with Shaw and Delaporte's (2015) etymological dictionary of ASL. Whenever a sign isn't in their dictionary, it can be sometimes found in their typical sources such as Long (1918), Clark (1885) or Michaels (1923).

A second principle is to account for all the phonological parameters when establishing initial iconicity, although natural phonological processes may erase some of the iconicity of a sign over time. Often a problematic explanation of iconicity will fit some of the parameters, but not all. This is especially problematic when a clearly meaningful (i.e. marked) parameter is skipped. The previous example of BRAG works well because there is historical evidence that: it used to be signed at the chest, which is a location associated with the self; the handshape was

⁹⁸ An example of this is the ASL sign OLD mentioned in footnote 32. A few more examples of this are given later in the fourth principle.

(and still is) the A-handshape which is used reflexively to refer to one's self; the historical orientation is meaningfully pointing towards the chest; and there are no non-manual markers to account for in this sign. The change from the chest to the waist is not common and is likely the main shift that renders the iconic base opaque, but lowering of signs is a known phonological pattern, so it is not entirely unusual. Likely the orientation changed with this shift of location so that it wouldn't strain the wrist. The fact that the sign changed from one-handed to two-handed and symmetrical may also be due to the location shift. Signs at the waist are often two-handed and symmetrical at the ipsi and contralateral sides. Further, a one handed sign at the middle of the waist may look obscene. This explanation of BRAG seems to be a good one because it accounts for all the parameters in a plausible manner both in terms of original iconicity and natural phonological changes.

Mark Mandel (1977:102) records a few examples of folk etymologies of the ASL sign BLACK that violate this second principle. The first is that the sign BLACK pictures the forehead of a black person. However, this is unlikely since the index finger is used to trace thin objects instead of broad objects like a forehead. Another unlikely etymology is that it depicts ashes applied the forehead for Ash Wednesday. This also violates the second principle because ashes are applied to the forehead in a cross pattern rather than in a line and with the thumb rather than the index finger. The iconic base is better represented as tracing the eyebrows because eyebrows are typically thin black (or dark colored) objects that go across the forehead that almost everyone has. Likely there was a slight phonological shift from an uncommon location, the eyebrows, to a common nearby location, the forehead.

A third principle is that the explanation should be based on sight rather than other possible explanations. Deaf people and sign languages are highly visual, and iconicity is a form to meaning relationship, so visual explanations take preference over non-visual ones. A good example of a visual explanation is the homonymy of the ASL signs CABBAGE and GARBAGE in

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some dialects. The sign CABBAGE is formed with a bent-B handshape tapped twice at the forehead.⁹⁹ The sign GARBAGE is signed the same way. While it may be tempting to link the signs based on a desire to throw the former in the latter, there is a better explanation for the homonymy. The sign CABBAGE is clearly iconic: it depicts a leaf on a head (of cabbage). The signer's head looks like a head of cabbage, the bent-B handshape with the palm facing inward orientation looks like a leaf of cabbage, and the movement is small (cabbages don't tend to move much), and is a basic movement associated with nouns. None of these parameters make sense visually for 'garbage'. However, the words 'cabbage' and 'garbage' look the same if being lip-read. Deaf people's perception of English is often based on lip-reading. Further, this visual association to English is not without precedent, it also occurs with the sign CENTS, which is signed at the same location as the sign THINK because it makes 'sense'.

The fourth principle is to recognize that iconic associations may change as the culture changes. The iconic base of a sign can be reanalyzed when the iconicity becomes dated or lost and a change in iconic base can result in a change in the form of the sign to match. For some signs the change in form and the reason for change is obvious. In Long (1918:42) the sign for TELEPHONE depicts using an old style "crank" telephone, where the separate earpiece is held to the ear and the mouthpiece is held in front of the mouth. This kind of telephone is no longer used, so the sign changed accordingly. Currently the Y-handshape is held at the cheek with the thumb reaching the ear and the pinkie reaching the mouth to represent the combined handpiece. This sign is still commonly used even though that style of phone is now less commonly used. I have seen CELLPHONE signed with a C-handshape held at the cheek to mimic holding a smartphone, and others have reported seeing the U-handshape used the same

⁹⁹ This is the variant in the Gallaudet ASL Dictionary. There are other variations with an open-5 handshape and with a side-to-side wrist movement, but these variations don't change the iconicity significantly.

way. The motivation for the change of signs is obvious: the form of the phone changes and the form of the sign changes to match.

For a less obvious reanalysis, the sign SUMMER, which is signed at the forehead (palm facing down) with the index finger flexing twice. The iconic base currently pictures wiping sweat off one's forehead. This makes good sense because it is a common action associated with summertime heat. This is, however, a reanalysis. The original French sign AOÛT 'August' pictured a laurel wreath on the head because August is when laurel crowns would be presented to the best students (Shaw and Delaporte:269). At some point this sign extended to all of summer instead of just August, and the iconic base changed from a laurel crown to wiping sweat. Because almost no one is aware of the correspondence between summer and laurel wreaths in America anymore it would be amiss to say that the sign SUMMER iconically represents a laurel wreath. That is the historical image, but the current image is what signers are familiar with presently. In the categories of iconicity described in this thesis, the iconic base changed from a wearable to a mimetic action.

The fifth principle is to be aware of common patterns of iconicity. Much of what is outlined in this thesis about the categories of iconicity for the location parameter would be included in this last principle. There are common patterns within each sign language and across sign languages. Borrowing from the dominant written language of the country is a common strategy of iconicity for each of the sign languages analyzed in this thesis. In ASL this is often done through initialization where the handshape associated with the English gloss is used for the sign. In HKSL, this came up a few times when signs were located at the mouth because the written Chinese character included the symbol of a mouth. Another common pattern is that items worn on a particular part of the body are often pictured in order to refer to something closely associated with them. Often clothing can refer to the professionals who wear that clothing, such as a badge for the ASL sign POLICE. Also in ASL, there is the language specific association of the masculine gender at the top of the head and the feminine gender at the lower half. Knowing the language specific associations is important.

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These principles do not guarantee a perfect iconic or etymological explanation, but an explanation that which follows each of these principles is going to be much more plausible than an explanation that does not.

APPENDICES

APPENDIX A (ASL) GALLAUDET DICTIONARY DATA

The data on ASL is taken from *The Gallaudet Dictionary of American Sign Language* (Valli 2005). The ASL glosses in this table are the glosses given for each of the signs on the CD insert rather than the glosses given in the book.

In these four appendices, I give detailed analyses of the data from the four dictionaries, which show the basis for the summary charts presented in the main text.

For all the tables in these four appendices, certain general conventions of labelling are used that I will outline here. In the English gloss column, if a gloss is followed by an asterisk (*), that means the sign has two or more locations, and thus also appears in the table that includes the second location. Both locations are listed in the location column. For the location column, the first major body location is given first and if there is a second major location that is given afterward. Some locations need further specification. If pertinent, after the major location(s), a sublocation is given separated by a comma.

The Metonym / Metaphor column is optional data I added when it seemed the connection between form and meaning was still unclear from the category of iconicity. The information in this column is not meant to be exhaustive. There were certain common metonymic or metaphorical extensions that were commonly necessary to bridge the gap between form and meaning. If there are multiple steps necessary, the two parts are separated by a "for". For example "person for character" means the sign is associated to a person first and then that person is associated with a specific character.

For any column, if there is a single question mark (?) that means the thing marked is uncertain for some reason. Anything marked in parentheses is a note added for clarification.

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| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------|------------------------------|----------------------------|-----------------------|
| Adult | head, side | qop: height | |
| Attention | face, in front | fop: seeing | |
| Back-of-mind | head, back | fop: cognition | |
| Bald | head, top | qop: bald | |
| Beautiful | face, in front | bp: face | appearance |
| Barber | head, top, above | iup: scissors | |
| Blonde | head, top | qop: blonde | |
| Cabbage | head, side | ap: head of cabbage | |
| Camera | face, in front | iup: camera | |
| Careless | face, in front | fop: seeing | |
| Catholic | face, in front | ma: cross on forehead | religion |
| Comb-hair | head, top, side | iup: comb | |
| Comb | head, top, side | iup: comb | |
| Confused | face, in front | fop: cognition | |
| Consider | face, in front | fop: cognition | |
| Cousin | head, side | lsa: male/female gender | |
| Crazy | head, side | fop: cognition | |
| Curly | head, side | qop: curly | |
| Dark | face, in front | fop: seeing | |
| Dizzy | face, in front | fop: seeing | |
| Education | head, side | fop: cognition | |
| Face | face, in front | bp: face | |
| Facial-Expression | face, in front | fop: facial expression | |
| Female-Haircut | head, side | eap: haircut | |
| Fond | face, in front | fop: facial expression | emotion: love |
| Freckles | face, in front | bp: freckles | |
| Front | face, in front | asp: front | |
| Frown | face, in front | fop: facial expression | emotion: sadness |
| Future | head, side | asp: central | timeline |
| Generation | head, side | asp: central | timeline |
| Grouchy | face, in front | fop: facial expression | emotion: anger |
| Guess | face, in front | fop: seeing | |
| Hair | head, side, hair | bp: hair | |
| Hairbrush | head, side | iup: hairbrush | |
| Haircut | head, side | eap: haircut | |
| Halloween | face, in front | iup: wearable | |
| Handsome | face, in front | bp: face | appearance |
| Harsh | face, in front | fop: facial expression | emotion: anger |
| Hat | head, top | iup: wearable | |
| Head | head, side, top to bottom | bp: head | |
| Height2 | head, top | qop: height | |
| Helmet | head, sides | iup: wearable | |

Table 13: ASL Location: Head

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-----------------|-------------------------------------|--------------------------|-----------------------|
| Isolated | head, side (unclear) | ?fop: cognition | |
| Later | head, side | asp: central | timeline |
| Lion | head, top | ap: lion's mane | creature |
| Look-like | face, in front | bp: face | appearance |
| Looks | face, in front | bp: face | appearance |
| Mad | face, in front | fop: facial expression | emotion: anger |
| Male Haircut | head, sides | eap: haircut | |
| Mirror | face, in front | iup: mirror | |
| Mourn | face, in front | fop: facial expression | emotion: sadness |
| Odd | face, in front | fop: seeing | |
| Pajamas* | face, in front | fop: seeing/cognition | |
| Pale* | chest, face, in front | bp: face | appearance |
| Pay Attention | face, in front | fop: seeing | |
| Pillow | head, side | iup: pillow | |
| President | head, sides | iup: wearable | |
| Pretty | face, in front | bp: face | appearance |
| Rabbi Hair | head, side | bp: hair | |
| Scarf* | head, top, above, chin, in front | iup: wearable | |
| Scissors/shears | head, side | iup: scissors | |
| Shade | face, in front | fop: seeing | |
| Shampoo | head, sides | iup: shampoo | |
| Shower | head, top, above | eap: shower | |
| Skunk | head, top | ap: skunk stripe | creature |
| Sleep | face, in front | fop: seeing/cognition | |
| Sleepy | face, in front | fop: seeing/cognition | |
| Stealth | face, in front | fop: seeing | |
| Straight | face, in front | asp: front | |
| Sulk | face, in front | fop: facial expression | emotion: sadness |
| Sweat | head, side | fop: sweat | |
| Teach | face, in front | fop: cognition | |
| Trouble | face, in front | fop: seeing | |
| Tutor | face, in front | fop: cognition | |
| Ugly | face, in front | bp: face | appearance |
| Vain | head, sides | bp: face | appearance |
| Wash-Face | face, in front | eap: washing | |
| Wild | head, side | fop: cognition | |
| Worry | face, in front | fop: seeing | |
| Wow | face, in front | fop: facial expression | emotion: awe |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|----------------|--------------|-----------------------|-----------------------|
| Agree | temple | fop: cognition | |
| Because | temple | fop: cognition | |
| Believe | forehead | fop: cognition | |
| Bison | forehead | ap: horns | creature |
| Black | forehead | qop: black | |
| Blackberry | forehead | qop: black | |
| Blank-Out | forehead | fop: cognition | |
| Blockhead | forehead | fop: cognition | |
| Boy | forehead | iup: wearable | male |
| Boyfriend | forehead | iup: wearable | male |
| Brain | temple | bp: brain | |
| Brother-in-Law | forehead | iup: wearable | male |
| Brother | forehead | iup: wearable | male |
| Bull | forehead | ap: horns | creature |
| Capital | forehead | iup: wearable | person |
| Clever | forehead | fop: cognition | 1 |
| Concept | temple | fop: cognition | |
| Conductor | forehead | iup: wearable | person |
| Confuse | temple | fop: cognition | 1 |
| Cousin (male) | temple, side | iup: wearable | male |
| Cow | forehead | ap: horns | creature |
| Crazy-for | temple | fop: cognition | |
| Crown | forehead | iup: wearable | |
| Decide | temple | fop: cognition | |
| Deer | forehead | ap: antlers | creature |
| Devil | temple | ap: devil horns | creature |
| Dime | temple | bor: English "cents" | |
| Disagree | temple | fop: cognition | |
| Disobey | temple | fop: cognition | |
| Disturbed | temple | fop: cognition | |
| Donkey | forehead | ap: donkey ears | creature |
| Dont-know | forehead | fop: cognition | |
| Dream | forehead | fop: cognition | |
| Eight-cents | temple | bor: English "cents" | |
| Eyebrow | eyebrow | bp: eyebrow | |
| Fantasy | forehead | fop: cognition | |
| Faint | forehead | fop: cognition | |
| Faith | forehead | fop: cognition | |
| Faithful | forehead | fop: cognition | |
| Father-in-Law | forehead | iup: wearable | male |
| Father | forehead | iup: wearable | male |
| Federal | temple | iup: wearable | person |
| Fireman | forehead | iup: wearable | person |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------------------|--------------------|-----------------------|---------------------------|
| Flipping-Out | temple | fop: cognition | |
| For | forehead | fop: cognition | |
| Forehead | forehead | bp: forehead | |
| Forget | forehead | fop: cognition | |
| Gentleman* | forehead | iup: wearable | male |
| Goat* | forehead | ap: goat horns | creature |
| Government | temple | iup: wearable | person |
| Governor | temple | iup: wearable | person |
| Grandfather | forehead | iup: wearable | male |
| Greet | forehead | ges: salute | |
| Headache | forehead, in front | eap: illness | |
| Hello | forehead, in front | ges: salute | |
| High/Hallucination | temple | fop: cognition | |
| Honor | forehead | ma: bowing | |
| Horse | temple | ap: horse ears | creature |
| Husband | forehead | iup: wearable | male |
| Idea | temple | fop: cognition | |
| Imagination | temple | fop: cognition | |
| Inform-all | forehead | fop: cognition | |
| Inform | forehead | fop: cognition | |
| Inform-me | forehead | fop: cognition | |
| Intend | temple | fop: cognition | |
| Invent | temple | fop: cognition | |
| Know | temple | fop: cognition | |
| Know-That | temple | fop: cognition | |
| Learn | forehead | fop: cognition | |
| MR (Mentally Retarded) | temple | fop: cognition | |
| Male (Boy) | forehead | iup: wearable | male |
| Man* | forehead | iup: wearable | male |
| Manhole | forehead | iup: wearable | male |
| Meditation | temple | fop: cognition | |
| Memorize | forehead, in front | fop: cognition | |
| Mischievous | forehead | ap: devil horns | creature for character |
| Miscommunication | forehead, in front | fop: cognition | |
| Misunderstand | forehead, in front | fop: cognition | |
| Moon | forehead | bp: face | man in the moon |
| Mull-over | temple, in front | fop: cognition | |
| Narrow-minded | temple | fop: cognition | |
| Nephew | forehead | iup: wearable | male |
| Nickel | temple | bor: English "cents" | |
| Nightmare* | temple | fop: cognition | |
| Not-funny | forehead | fop: cognition | |
| Not-interested | forehead | fop: cognition | |
| Nun | forehead | iup: wearable | person |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--|--------------------|-----------------------|---------------------------|
| Obey* | forehead | ma: bowing | |
| Open-minded | temple | fop: cognition | |
| Opinion | forehead | fop: cognition | |
| Paranoid | temples | fop: cognition | |
| Paranoid2 | temples | fop: cognition | |
| Parents* | chin, forehead | iup: wearable | male |
| Penny | temple | bor: English "cents" | |
| Philosophy | forehead, in front | fop: cognition | |
| Politics | temple | iup: wearable | person |
| Pretend | temple | fop: cognition | |
| Puzzled | temple, in front | fop: cognition | |
| Quarter | temple | bor: English "cents" | |
| Ram | temple | ap: ram horns | creature |
| Reason | temple, in front | fop: cognition | |
| Remember | temple | fop: cognition | |
| Remind | temple | fop: cognition | |
| Respect | forehead | ma: bowing | |
| Rooster | forehead | ap: rooster crest | creature |
| Scar-in-mind | forehead | fop: cognition | crouture |
| Scout | forehead | ges: salute (scout) | person |
| Shock | temple | fop: cognition | person |
| Sick* | forehead | eap: illness | |
| Son* | forehead | iup: wearable | male |
| Step-Brother | forehead | iup: wearable | male |
| Step-Father | forehead | iup: wearable | male |
| Stubborn | temple | ap: donkey ear | creature for character |
| Student | forehead | fop: cognition | |
| Stupid | forehead | fop: cognition | |
| Summer | forehead | ma: wiping sweat | |
| Suppose | temple | fop: cognition | |
| Suspect | temple | fop: cognition | |
| Theory | temple, in front | fop: cognition | |
| Think | temple | fop: cognition | |
| Think-the-world-of | temple | fop: cognition | |
| Thinking | temple | fop: cognition | |
| Too-long | temple | asp: central | timeline |
| Uncle | temple, side | iup: wearable | male |
| Understand | temple, in front | fop: cognition | |
| Vice-President | temple | iup: wearable | person |
| What-for? | temple | fop: cognition | Porton |
| What for the what what for the what for the what for the what what what what what what what what | forehead | fop: cognition | |
| Wisdom | forehead | fop: cognition | |
| Wonder | forehead | fop: cognition | |
| | | | |
| Worship | forehead | fop: cognition | |

Table 15: ASL Location: Eyes

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|----------------|----------------|--------------------------|-----------------------|
| Awake | eyes, in front | fop: opening | |
| Blind | eyes, below | fop: seeing | |
| Blink | eye, in front | fop: blinking | |
| Contact Lenses | eye, in front | iup: wearable | |
| Cry | eye, below | fop: crying | |
| Doubt | eye, in front | fop: seeing | |
| Eyelash | eyes, above | bp: eyelash | |
| Eyes | eyes, below | bp: eyes | |
| Frown2 | eyes, in front | fop: facial expression | |
| Glance | eye, in front | fop: seeing | |
| Glasses | eyes, side | iup: wearable | |
| Look-at | eyes, in front | fop: seeing | |
| Look-at-me | eyes, in front | fop: seeing | |
| Look-back | eyes, in front | fop: seeing | |
| Look-down | eyes, in front | fop: seeing | |
| Look-for | eyes, in front | fop: seeing | |
| Mask | eyes, in front | iup: wearable | |
| Notice | eye, below | fop: seeing | |
| Onion | eye, side | fop: crying | |
| Owl | eyes | ap: owl eyes | |
| Patch (eye) | eye, covering | iup: wearable | |
| Photographer | eyes, in front | fop: seeing | |
| Predict | eyes, below | fop: seeing | |
| Prophet | eyes, below | fop: seeing | |
| Raccoon | eyes | ap: raccoon eyes | |
| See | eye, below | fop: seeing | |
| Shock | eye, in front | fop: opening | surprise |
| Skeptical | eye, in front | fop: seeing | |
| Sun | eye | fop: seeing | |
| Surprise | eye, below | fop: opening | surprise |
| Telescope | eye, in front | iup: telescope | |
| Vision | eyes, in front | fop: seeing | |
| Visit | eyes, below | fop: seeing | |
| Wink | eye, ipsi | fop: winking | |

Table 16: ASL Location: Ears

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|-----------|--------------------------|-----------------------|
| Audiologist | ear, side | fop: hearing | |
| Audiology | ear, side | fop: hearing | |
| Birthday | ear | ma: pulling ear | |

| Coconut | ear | fop: hearing | |
|--------------------|---------------|------------------|---------------------|
| Deaf* | ear, cheek | fop: hearing | |
| Deaf2 | ear | fop: hearing | |
| Ear | ear | bp: ear | |
| Earache | ear, side | eap: illness | |
| Earmuffs | ear, side | iup: wearable | |
| Earrings | ear | iup: wearable | |
| Gold | ear | iup: wearable | color (or material) |
| Hearing-Aid | ear, behind | fop: hearing | |
| Listen | ear | fop: hearing | |
| Loud | ear | fop: hearing | |
| Noise | ear, in front | fop: hearing | |
| Noisy | ear | fop: hearing | |
| Operator | ear | iup: headset | person |
| Put-on-hearing-aid | ear | iup: hearing aid | |
| Radio | ear, side | fop: hearing | |
| Silver | ear | iup: wearable | color (or material) |
| Thunder | ear | fop: hearing | |

Table 17: ASL Location: Nose

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|----------------|--------------------------|-----------------------|
| Blow-Nose | nose | fop: blowing nose | |
| Boring | nose, side | lsa: neg | |
| Bug | nose | lsa: neg | creature |
| Bull | nose | iup: bull ring | creature |
| Circus | nose | iup: clown nose | |
| Cold | nose | eap: illness | |
| Doll | nose | bp: face | doll |
| Don't-care | nose | lsa: neg | |
| Don't-mind | nose | lsa: neg | |
| Eagle | nose | ap: eagle beak | creature |
| Elephant | nose, in front | ap: elephant trunk | creature |
| False. | nose | lsa: neg | |
| Fool | nose | lsa: neg | |
| Fool2 | nose | lsa: neg | |
| Foolish | nose | lsa: neg | |
| Fox | nose | ap: fox nose | creature |
| Fun | nose | lsa: humor | |
| Funny | nose | lsa: humor | |
| Handkerchief | nose, in front | iup: handkerchief | |
| Ignore | nose | fop: smell | |
| Immature | nose | lsa: neg | |
| Investigate | nose | fop: sight | |
| Kid | nose, under | fop: runny nose | person |
| Lousy | nose | ma: throwing snot | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|------------------|----------------|---------------------------|-----------------------|
| Mosquito | nose | ap: mosquito proboscis | creature |
| Mosquito3 | nose | ap: mosquito proboscis | creature |
| Mouse | nose | ap: mouse nose | creature |
| Nose | nose | bp: nose | |
| Interested-in* | chest, nose | bp: face | person |
| Interest-None | nose | bp: face | person |
| Penis (informal) | nose | ap: penis | |
| Rat | nose | ap: rat nose | creature |
| Ridiculous | nose | lsa: humor | |
| Rose | nose | fop: smell | |
| Runny Nose | nose, under | fop: runny nose | |
| Flower | nose | fop: smell | |
| Silly | nose | lsa: humor | |
| Smell | nose, in front | fop: smell | |
| Sneeze | nose | fop: sneeze | |
| Stink | nose, in front | fop: smell | |
| Stink2 | nose, grasping | fop: smell | |
| Strict | nose | bor: "hard nose" | |
| Witch | nose | ap: hooked nose | creature |
| Wolf | nose, in front | ap: wolf snout | creature |

Table 18: ASL Location: Cheek

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|-----------------|----------------------------|-----------------------|
| Apple | cheek | fop: chewing | |
| Ashamed | cheek | eap: blushing | emotion: shame |
| Aunt | cheek | lsa: female | |
| Bar | cheek, in front | fop: drinking | |
| Beard | cheek | bp: beard | |
| Bed | cheek | ma: folding hands to sleep | |
| Bedroom | cheek | ma: folding hands to sleep | |
| Bee | cheek | eap: sting | |
| Blush* | mouth, cheek | eap: blushing | |
| Brush-Makeup | cheek | iup: makeup | |
| Call-on-phone | cheek | iup: phone | |
| Candy | cheek | fop: eating | |
| Carrot | cheek, in front | fop: eating | |
| Cat | cheek | ap: whiskers | creature |
| Cheek | cheek | bp: cheek | |
| Chewing gum | cheek | fop: chewing | |
| Chuckle | cheek | fop: facial expression | |
| Consume | cheek | fop: eating | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------------|----------------------|-------------------------------------|-----------------------|
| Cousin | cheek, side | lsa: female | |
| Daughter* | chin, forearm | lsa: female | |
| Deaf* | ear, cheek | fop: speaking | |
| Dimple | cheek | bp: dimple | |
| Dormitory | cheek, bottom to top | fop: eating, ma: sleeping | |
| Embarrassed | cheek | eap: blushing | emotion: shame |
| Everyday | cheek | asp: central | timeline |
| Experience | cheek | fop: cognition | |
| Fat | cheek | qop: fat | |
| Fruit | cheek | fop: eating | |
| Giggle | cheek | fop: facial expression | |
| Girl | cheek | iup: wearable | female |
| Girlfriend | cheek | lsa: female | |
| Hang-up (phone) | cheek | iup: phone | |
| Home* | chin, side, cheek | fop: eating, ma: sleeping | |
| Homework | cheek | fop: eating, ma: sleeping | |
| Jaw | cheek | bp: jaw | |
| Jealous | cheek | ges: bite finger | |
| Leather | cheek | ap: leather | |
| Mattress | cheek | ma: folding hands to sleep | |
| Measles | cheeks | eap: illness | |
| Menstruation | cheek | qop: red | |
| Mosquito2 | cheek | eap: bite, ma: slap | |
| Neat/Cool | cheek | ?? | |
| Nerve/Brazen | cheek | eap: tooth extraction | |
| Niece | cheek, side | lsa: female | |
| Peach | cheek | ap: peach fuzz | |
| Picture | cheek | bp: face | |
| Pimples | cheek | eap: illness | |
| Pleasant (friendly) | cheek | ?eap: cool breeze | |
| Powder (make-up) | cheek | iup: makeup | |
| Recently | cheek | asp: central | timeline |
| Rub | cheek | eap: rub | |
| Rubber | cheek | qop: rubbery | |
| Secretary | cheek | ma: taking pen from ear | |
| Sex (gender) | cheek, top to bottom | ap: upper and lower half of head | |
| Shame | cheek | eap: blushing | emotion: shame |
| Shave | cheek | eap: shaving | |
| Shy | cheek | eap: blushing | emotion: shame |
| Sister-in-law | cheek | lsa: female | |
| Sister | cheek | lsa: female | |
| Skin | cheek | bp: skin | |
| Sleep | cheek | ma: folding hands to sleep | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|----------------------|--------------------------|-----------------------|
| Step-Mother | cheek | lsa: female | |
| Step-Sister | cheek | lsa: female | |
| Sting | cheek | eap: sting | |
| Tan | cheek, top to bottom | qop: tan | |
| Telephone | cheek | iup: phone | |
| Tiger | cheek | ap: tiger stripes | creature |
| Tobacco | cheek | fop: chewing | |
| Tomorrow | cheek | asp: central | timeline |
| Vegetable | cheek | fop: eating | |
| Virgin | cheek | lsa: female | |
| Whiskers | cheek | ap: whiskers | |
| Wife | cheek | lsa: female | |
| Wine | cheek | qop: red | |
| Will | cheek, side | asp: central | timeline |
| Yesterday | cheek, bottom to top | asp: central | timeline |

Table 19: ASL Location: Mouth

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-----------------|-------------------|--------------------------|-----------------------|
| Alcoholic Drink | mouth | fop: drinking | |
| Announce | mouth | fop: speaking | |
| Answer | mouth | fop: speaking | |
| Bad | mouth | ma: blowing a kiss | |
| Bachelor | mouth, both sides | fop: speaking | |
| Balloon | mouth, in front | iup: balloon | |
| Beer | mouth, side | fop: drinking | |
| Belong | mouth | fop: speaking | |
| Bless | mouth | fop: speaking | |
| Bird | mouth | ap: beak | |
| Blood | mouth | qop: red | |
| Blush* | mouth, cheek | qop: red | |
| Breakfast | mouth | fop: eating | |
| Brown | mouth, side | qop: brown | |
| Brush-Teeth | mouth, teeth | ma: brushing teeth | |
| Cafeteria | mouth, both sides | fop: eating | |
| Cereal | mouth | fop: eating | |
| Cigar | mouth, side | fop: smoking | |
| Cocktail | mouth | fop: drinking | |
| Corn | mouth, in front | fop: eating | |
| Curse | mouth | fop: speaking | |
| Dare | mouth, in front | fop: speaking | |
| Delicious | mouth | fop: eating | |
| Dentist | mouth, teeth | bp: teeth | person |
| Dining-Room | mouth | fop: eating | |
| Dinner | mouth | fop: eating | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|----------------|------------------|--------------------------|-----------------------|
| Drink | mouth | fop: drinking | |
| Drunk | mouth, in front | fop: drinking | |
| Duck | mouth, in front | ap: beak | |
| Eat | mouth | fop: eating | |
| Fall-in-love | mouth | ?fop: kissing | love |
| Famous | mouth | fop: speaking | fame |
| Fasting | mouth | fop: eating | |
| Feast | mouth, in front | fop: eating | |
| Feed | mouth | fop: eating | |
| Finally | mouth | ?fop: speaking | |
| Flood | mouth | fop: drinking | |
| Flow | mouth | fop: drinking | |
| Flute | mouth | iup: musical instrument | |
| Glass | mouth, teeth | qop: hard | |
| Good-Luck | mouth | ma: blowing a kiss | |
| Good-Morning | mouth | ma: blowing a kiss | |
| Good-Night | mouth | ma: blowing a kiss | |
| Gossip | mouth | fop: speaking | |
| Grocery-Store | mouth | fop: eating | |
| Hearing/Public | mouth | fop: speaking | |
| Hide | mouth | fop: speaking | |
| Hot | mouth, in front | fop: eating | |
| Humble | mouth | fop: speaking | |
| Ice cream | mouth | fop: eating | |
| Innocent | mouth | ?fop: speaking | character |
| Kiss | mouth | fop: kissing | |
| Laugh | mouth, sides | fop: facial expression | |
| Liar | mouth, in front | fop: speaking | |
| Lie | mouth, in front | fop: speaking | |
| Lipreading | mouth, in front | bp: lips | |
| Lips | mouth | bp: lips | |
| Lipstick | mouth | iup: lipstick | |
| Marijuana | mouth, side | fop: smoking | |
| Mouth | mouth | bp: mouth | |
| Mustache | mouth, above lip | bp: mustache | |
| Napkin | mouth, in front | iup: napkin | |
| Nuts | mouth, teeth | fop: eating | |
| Oral | mouth, in front | fop: speaking | |
| Orange | mouth, in front | fop: eating | |
| Order | mouth, in front | fop: speaking | |
| Patient | mouth | fop: speaking | |
| Pencil | mouth | iup: pencil | |
| Pickle | mouth, side | fop: eating | |
| Picnic | mouth, in front | fop: eating | |
| Pills | mouth | fop: eating | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-----------------|------------------------|--------------------------|-----------------------|
| Pipe | mouth | iup: pipe | |
| Pizza | mouth | fop: eating | |
| Promise | mouth | fop: speaking | |
| Puff | mouth, side | fop: smoking | |
| Rattlesnake | mouth, in front | ap: snake fangs | |
| Reporter | mouth, in front | fop: speaking | |
| Reigns | mouth, sides | iup: wearable | creature |
| Restaurant | mouth, sides | fop: eating | |
| Scream | mouth, in front | fop: speaking | |
| Scuba Diving | mouth | iup: snorkel | |
| Secret | mouth | fop: speaking | |
| Shut-up | mouth | fop: speaking | |
| Single | mouth, sides | fop: speaking | |
| Smile | mouth, in front | fop: facial expression | |
| Smoking | mouth | fop: smoking | |
| Snake | mouth, in front | ap: snake fangs | |
| Snorkeling | mouth, side | iup: snorkel | |
| Speech (oral) | mouth, in front | fop: speaking | |
| Spicy | mouth, in front | fop: eating | |
| Spit | mouth, in front | fop: spitting | |
| Stamps | mouth | iup: stamp | |
| Straw | mouth | iup: straw | |
| Strawberry | mouth | fop: eating | |
| Suck (on candy) | mouth, in front | fop: eating | |
| Take-a-Pill | mouth, in front | fop: eating | |
| Teeth | mouth, teeth | bp: teeth | |
| Thermometer | mouth, side | iup: thermometer | |
| Thief | mouth, in front | iup: wearable | |
| Tomato | mouth | qop: red | |
| Tongue | mouth, tongue | bp: tongue | |
| Toothbrush | mouth, teeth, in front | iup: toothbrush | |
| Trombone | mouth | iup: musical instrument | |
| Trumpet | mouth, in front | iup: musical instrument | |
| Using-a-straw | mouth | fop: drinking | |
| Vomit | mouth, in front | fop: vomiting | |
| Watermelon | mouth, in front | fop: eating | |
| Wet | mouth | fop: drinking | |
| Whisper | mouth | fop: speaking | |
| Whistle | mouth | iup: musical instrument | |
| Who | mouth | bor: English "who" | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|--------------------|--------------------------|-----------------------|
| Age | chin, below | bp: beard | age |
| Candy cane | chin | fop: eating | |
| Candy | chin | fop: eating | |
| Chin | chin | bp: chin | |
| Cute | chin | fop: eating | character |
| Best | chin | ma: blowing a kiss | |
| Better | chin | ma: blowing a kiss | |
| Birthday* | chin | ?? | |
| Color | chin | qop: red | |
| Communicate | chin | fop: speaking | |
| Creek | chin | fop: drinking | |
| Deny | chin | ges: biting thumb | |
| Desert | chin | fop: drinking | |
| Dialogue | chin | fop: speaking | |
| Dirty | chin, under | ma: pig rooting | creature for quality |
| Disappoint | chin | fop: taste | 1 0 |
| Discontented* | chin, under, chest | ges: biting thumb | |
| Dry | chin | fop: drinking | |
| Dryer | chin | fop: drinking | |
| Fair | chin | ma: blowing a kiss | |
| Farm | chin | ?fop: eating | |
| Farmer | chin | ?fop: eating | |
| Favorite | chin | fop: taste | |
| Fed-up | chin, under | fop: eating | |
| Filthy | chin, under | ma: pig rooting | creature for quality |
| Frog | chin, under | ap: frog throat | |
| Frustrate | chin | ma: door shut in face | |
| Frustrate2 | chin | ma: door shut in face | |
| Full | chin, under | fop: eating | |
| Gay | chin | fop: sex act | |
| Goat* | chin | ap: goat beard | creature |
| Grandmother | chin | lsa: female | |
| Grass | chin, under | fop: eating | |
| Home* | chin, side, cheek | fop: eating | |
| Honey | chin | fop: eating | |
| Honey2 | chin | fop: eating | |
| Lady* | chin, chest | lsa: female | |
| Lake | chin | fop: drinking | |
| Lemon | chin | fop: eating | |
| Lesbian | chin | fop: sex act | |
| Letter | chin | iup: stamp/seal | |
| Lick | chin | fop: licking | |
| | | | |

Table 20: ASL Location: Chin

chin

Light

asp: lightbulb filament

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|------------------|-----------------------------|--------------------------|-----------------------|
| Lighthouse | chin | asp: lightbulb filament | |
| Lights on | chin | asp: lightbulb filament | |
| Lights out | chin | asp: lightbulb filament | |
| Lonely | chin | fop: speaking | |
| Lucky | chin | ma: blowing a kiss | |
| Lunch | chin | fop: eating | |
| Lunch2 | chin | fop: eating | |
| Metal | chin | qop: hard | |
| Microphone | chin, in front | iup: microphone | |
| Minor (age) | chin, under | bp: beard | age |
| Miscommunication | chin | fop: speaking | |
| Miss | chin | fop: taste | emotion |
| Mistake | chin, under | fop: speaking | |
| Mother | chin | lsa: female | |
| Mother-in-law | chin | lsa: female | |
| Napkin2 | chin, in front | iup: napkin | |
| Nightmare* | chin | ma: blowing a kiss | |
| Not | chin | ges: biting thumb | |
| Nothing | chin | ges: biting thumb | |
| Old | chin, below | bp: beard | age |
| Old Testament | chin, below | bp: beard | age |
| Parents* | chin, forehead | lsa: female | |
| Pig | chin, under | ma: pig rooting | creature |
| Pineapple | chin | fop: eating | |
| Pink | chin | qop: red | |
| Prefer | chin | fop: taste | |
| Puddle | chin | fop: drinking | |
| Red | chin | qop: red | |
| Redberry | chin | qop: red | |
| River | chin | fop: drinking | |
| Say | chin | fop: speaking | |
| Scarf* | head, above, chin, in front | iup: wearable | |
| Senior Citizen | chin, sides | bp: beard | age |
| Soon | chin | asp: central | timeline |
| Sour | chin, side | fop: taste | |
| Skilled/Expert | chin | ma: blowing a kiss | |
| Stingy | chin | ges: biting fingers | envy |
| Suffer | chin | fop: speaking | |
| Sugar | chin | fop: eating | |
| Talk | chin | fop: speaking | |
| Taste | chin | fop: eating | |
| Tattle | chin, under | fop: speaking | |
| Tell | chin | fop: speaking | |
| Thank-you | chin | ma: blowing a kiss | |
| Thick | chin | asp: thin/thick | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------|------------------|--------------------------|-----------------------|
| Thin | chin, in front | asp: thin/thick | |
| Treasure/precious | chin | ges: biting fingers | envy |
| True | chin | fop: speaking | |
| Twins | chin, both sides | ?? | |
| Umpire | chin | iup: wearable | |
| Vinegar | chin, side | fop: drinking, or taste | |
| Warm | chin, in front | fop: breathing | |
| Water | chin | fop: drinking | |
| Water-Fountain | chin | fop: drinking | |
| Waterfall | chin | fop: drinking | |
| Who2 | chin | bor: English "who" | |
| Woman* | chin, chest | iup: wearable | |
| Wrong | chin | fop: speaking | |

Table 21: ASL Location: Neck

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|----------------------|--------------------------|-----------------------|
| Bowtie | neck, in front | iup: wearable | |
| Broke | neck, side | ?ma: chopping neck | |
| Choke-myself | neck | eap: choking | |
| Collar | neck | iup: wearable | |
| Curious | neck | ?? | |
| Giraffe | neck | ap: giraffe neck | creature |
| Mumps | neck, sides | eap: illness | |
| Neck | neck | bp: neck | |
| Necktie* | neck to chest | iup: wearable | |
| Perfume | neck, ipsi to contra | iup: wearable | |
| Pitch (voice) | neck | fop: speaking | |
| Priest | neck | iup: wearable | person |
| Stuck | neck | eap: choking | |
| Swallow | neck | fop: swallow | |
| Thirsty | neck | fop: drinking | |
| Throat | neck | bp: throat | |
| Sore-Throat | neck, in front | eap: illness | |
| Tie-necktie | neck | iup: wearable | |
| Tuxedo | neck | iup: wearable | |
| Vodka | neck, side | fop: drinking | |
| Voice | neck | fop: speaking | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|------------------|-------------------|--------------------------|-----------------------|
| Ancestors | shoulder, above | asp: central | timeline |
| Angel | shoulder, top | ap: wings | |
| Back | shoulder, back | bp: back | |
| Backpacking | shoulder, top | iup: wearable | |
| Before | shoulder, above | asp: central | timeline |
| Boss | shoulder, top | iup: wearable | person |
| Capital | shoulder, top | iup: wearable | person |
| Coach | shoulder, top | iup: wearable | person |
| Exercise | shoulder, above | ma: lifting weights | |
| Gym | shoulder, above | ma: lifting weights | |
| Historic/Ancient | shoulder, above | asp: central | timeline |
| Fault | shoulder, top | fop: carrying | responsibility |
| Fly | shoulder, top | ap: wings | |
| Past | shoulder | asp: central | timeline |
| Pat | shoulder | eap: pat | |
| Recover | shoulder | ? | |
| Religion | shoulder, ipsi | ? | |
| Responsibility | shoulder, ipsi | fop: carrying | responsibility |
| King* | shoulder to waist | iup: wearable | person |
| Kingdom* | shoulder to waist | iup: wearable | person |
| Last Night | shoulder, above | asp: central | timeline |
| Last Week | shoulder, above | asp: central | timeline |
| Last Year | shoulder, above | asp: central | timeline |
| Loaf-to-Laze | shoulders, front | fop: carrying | responsibility |
| Long Ago | shoulder, above | asp: central | timeline |
| Lord* | shoulder to waist | iup: wearable | person |
| Queen* | shoulder to waist | iup: wearable | person |
| Royal* | shoulder to waist | iup: wearable | person |
| Since | shoulder, ipsi | asp: central | timeline |
| Tradition | shoulder, above | asp: central | timeline |

| Table 22: ASL Location: Shoulder | S |
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| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|----------|--------------------------|-----------------------|
| Accept | chest | bp: chest | self |
| Act | chest | ma: pulling curtain | |
| Actor | chest | ma: pulling curtain | |
| Address | chest | fop: blood flow | |
| Admit | chest | bp: chest | self |
| Afraid | chest | eap: emotion: fear | |
| Aggravate | chest | eap: emotion: anger | |
| Aggravated | chest | eap: emotion: anger | |
| Ambition | chest | bp: chest | self |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|-----------------------|--------------------------------------|-----------------------|
| Animal | chest | fop: breathing | creature |
| Apply | chest, grasping shirt | ma: taking shirt | |
| Bat | chest | ap: bat wings | creature |
| Bath | chest | ma: scrubbing body | |
| Bathrobe | chest | ma: scrubbing body, iup: wearable | |
| Bathing suit* | chest, waist | iup: wearable | |
| Bathtub | chest | ma: scrubbing body | |
| Bear | chest | ap: bear claws | creature |
| Benefit | chest, side | ma: putting in pocket | |
| Beside | chest, side | bp: side | |
| Bikini* | chest, waist | iup: wearable | |
| Blanket (n/v) | chest | iup: wearable | |
| Blouse | chest | iup: wearable | |
| Body | chest | bp: body | |
| Bra | chest | iup: wearable | |
| Brave | chest | bor: French 'cœur' (heart) | |
| Breasts | chest | bp: breasts | |
| Breathe | chest | fop: breathing | |
| Buttons | chest | iup: wearable | |
| Chest | chest | bp: chest | |
| Clothes | chest | iup: wearable | |
| Coat | chest | iup: wearable | |
| Committee | chest | bp: chest | self |
| Complain | chest | eap: emotion: anger | |
| Cough | chest | fop: coughing | |
| Cough2 | chest | fop: coughing | |
| Deflated-Ego | chest | bp: chest | self |
| Depressed | chest | eap: emotion: sadness | |
| Depressed2 | chest | eap: emotion: sadness | |
| Diet | chest | bp: body | |
| Discontented* | chin, under, chest | bp: chest | self |
| Do-You-Mind? | chest | eap: emotion: anger | |
| Don't-Like | chest | eap: emotion: love | |
| Drama | chest | ma: pulling curtain | |
| Dress | chest | iup: wearable | |
| Ego | chest | bp: chest | self |
| Ego-inflated | chest | bp: chest | self |
| Emotion | chest | eap: emotion | |
| Enjoy | chest | eap: emotion: love | |
| Event | chest | eap: emotion: happiness | |
| Excited | chest | eap: emotion: happiness | |
| Expression | chest | eap: emotion | |
| Fancy | chest | iup: wearable | |
| Fear | chest | eap: emotion: fear | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------------|-----------------------|--------------------------|-----------------------|
| Feel | chest | eap: emotion | |
| Fine | chest | iup: wearable | |
| Gang | chest, ipsi | ?? | |
| Gentleman* | chest | iup: wearable | |
| Gym | chest | ?? | |
| Нарру | chest | eap: emotion: happiness | |
| Have | chest | bp: chest | self |
| Hug | chest | eap: hug | |
| Hungry | chest | eap: hunger | |
| Ι | chest | bp: chest | self |
| Inspired | chest | eap: emotion | |
| Interested-in | chest | bp: chest | self |
| Interested-in* | chest, nose | bp: chest | self |
| Jewelry (necklaces) | chest | iup: wearable | |
| Joy | chest | eap: emotion: happiness | |
| Lady* | chin, chest | iup: wearable | |
| Late | chest, side | asp: central | timeline |
| Leather | chest, ipsi | ap: leather | |
| Legislature | chest, contra to ipsi | bp: chest | self |
| Life | chest | fop: blood flow | |
| Lightweight | chest | bp: body | |
| Like | chest | eap: emotion: love | |
| Live | chest | fop: blood flow | |
| Living Room | chest | iup: wearable | |
| Lungs | chest | bp: lungs | |
| Man* | chest | iup: wearable | |
| Me too | chest, in front | bp: chest | self |
| Member | chest, ipsi to contra | bp: chest | self |
| Mine | chest | bp: chest | self |
| Monkey | chest, sides | ma: monkey scratching | creature |
| Му | chest | bp: chest | self |
| My-fault | chest | bp: chest | self |
| Myself | chest | bp: chest | self |
| Necklace | chest | iup: wearable | |
| Necktie* | neck to chest | iup: wearable | |
| Nipples | chest, contra to ipsi | bp: nipples | |
| Obey* | chest, in front | bp: chest | self |
| Our | chest, ipsi to contra | bp: chest | self |
| Ourselves | chest, ipsi to contra | bp: chest | self |
| Pajamas* | chest | iup: wearable | |
| Pale* | chest | qop: white | |
| Pearls (necklace) | chest | iup: wearable | |
| Physical | chest | bp: body | |
| Please | chest | bp: chest, eap: emotion | self |
| Pneumonia | chest | eap: illness | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|-----------------------------------|--|-----------------------|
| Poetry | chest | bp: chest, eap: emotion | self |
| Poke | chest, side | eap: poke | |
| Polite | chest | iup: wearable | |
| Princess* | chest, contra to ipsi to waist | bp: breasts | female |
| Proud | chest, bottom to top | bp: chest, eap: emotion | self |
| Purse | chest, side, armpit | iup: purse | |
| Rabbi Robes | chest | iup: wearable | |
| Relieved | chest | eap: emotion: stress | |
| Rest | chest | ma: fold arms to rest | |
| Retire | chest | ma: thumbs in overalls | resting |
| Revival | chest | eap: emotion: happiness | |
| Revive | chest | fop: blood flow | |
| Rib | side, ipsi | bp: rib | |
| Ribs | side, ipsi | bp: rib | |
| Satisfy | chest | bp: chest | self |
| Scared | chest, in front | eap: emotion: fear | |
| Senate | chest, ipsi to contra | bp: chest | self |
| Sensitive | chest | eap: emotion | |
| Shirt | chest, grasp shirt | iup: wearable | |
| Side | side, ipsi | bp: side | |
| Stripes | chest | iup: wearable | |
| Skeleton | chest | ma: skeleton with arms folded in coffin | |
| Soldier | chest | iup: rifle | |
| Sophisticated | chest | iup: wearable | |
| Sorry | chest | bp: chest, eap: emotion | self |
| Sweater | chest | iup: wearable | |
| T-shirt | chest | iup: wearable | |
| Tank-top | chest | iup: wearable | |
| Tend | chest | eap: emotion | |
| Tickle | sides | eap: tickling | |
| Tired | chest | fop: breathing | |
| Undress | chest | iup: wearable | |
| Unhappy | chest | eap: emotion: sadness | |
| Uniform | chest | iup: wearable | |
| Vacation | chest | ma: thumbs in overalls | resting |
| We | chest | bp: chest, eap: emotion | self |
| Well (Health) | chest | ?? | |
| White | chest | qop: white | |
| White-Person | chest | qop: white | |
| Woman* | chin, chest | iup: wearable | |
| Young | chest | fop: blood flow | |
| Zipper* | waist to chest to waist | iup: wearable | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------|----------|--------------------------|-----------------------|
| Apprehensive | heart | bp: heart | emotion: fear |
| Attitude | heart | bp: heart | personality |
| Badge | heart | iup: wearable | |
| Character | heart | bp: heart | personality |
| Detective | heart | iup: wearable | person |
| Guilt | heart | bp: heart | personality |
| Heart-attack | heart | eap: illness | |
| Heart (body part) | heart | bp: heart | |
| Heart (emotional) | heart | bp: heart | |
| Heart-beat | heart | fop: heartbeat | |
| Hurt | heart | bp: heart | emotion: hurt |
| Lazy | heart | bp: heart | personality |
| Missionary | heart | bp: heart | religion |
| Personality | heart | bp: heart | personality |
| Pin | heart | iup: wearable | |
| Promise | heart | ges: cross-heart | |
| Religion | heart | bp: heart | religion |
| Sweetheart | heart | bp: heart | emotion: love |

Table 24: ASL Location: Heart

Table 25: ASL Location: Arm

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|----------------------------|--------------------------|--|
| Arm | upper arm to forearm | bp: arm | |
| Authority | upper arm to forearm | bp: bicep | power |
| Basket | forearm to upper arm, back | iup: basket handle | |
| Boots | forearm | ap: legs | |
| Cheat | forearm, under | asp: surface | cover |
| Coke (soda) | forearm | iup: hypodermic needle | pun: "coke" can refer to both soda or cocaine |
| Computer | forearm | bp: bicep | power |
| Daughter* | forearm | fop: cradling | |
| Deteriorate | upper arm to forearm | asp: length | |
| Drugs | forearm | iup: hypodermic needle | |
| Energy | upper arm to forearm | bp: bicep | power |
| Episcopal | forearm | iup: wearable (sleeves) | |
| Foundation | forearm, under | asp: surface | |
| Give-Shot | forearm, under | iup: hypodermic needle | |
| Hospital | upper arm | iup: wearable | |
| Improve | forearm, back | asp: length | |
| Improve | forearm to upper arm | asp: length | |
| Injection | upper arm | iup: hypodermic needle | |
| Lamb | forearm | fop: cradling | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------|----------------------|-------------------------------|-----------------------|
| Left-Arm | forearm | bp: arm | |
| Long | forearm, back | asp: length | |
| Nerve | forearm, front | bp: nerves | |
| Parliament | forearm, under | iup: wearable (sleeves) | |
| Patient (medical) | upper arm | iup: wearable | |
| Poetry | forearm | ?ma: conduct music | |
| Powerful | forearm | bp: bicep | power |
| Right Arm | forearm | bp: arm | |
| Run (hose) | forearm | iup: wearable, ap: legs | |
| Sing | forearm | ?ma: conduct music | |
| Singer | forearm | ?ma: conduct music | |
| Sleeves | upper arm to forearm | iup: wearable | |
| Sleeves-Long | upper arm to forearm | iup: wearable | |
| Sleeves-Short | upper arm | iup: wearable | |
| Son* | forearm | fop: cradling | |
| Stage | forearm, back | asp: surface | |
| Steal | forearm | asp: surface (under) | cover |
| Stockings | forearm | iup: wearable and ap: legs | |
| Table | forearm | asp: surface | |
| Tattoo | upper arm | iup: wearable | |
| Wastebasket | forearm, side | iup: basket handle | |
| Whale | forearm | asp: surface | creature |

Table 26: ASL Location: Elbow

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-----------------|----------|---|-----------------------|
| Autumn | elbow | asp: length | tree |
| Country | elbow | ma: harvesting | |
| Country2 | elbow | ma: harvesting | |
| Cracker | elbow | ?? | |
| Elbow | elbow | bp: elbow | |
| Foreign | elbow | ma: harvesting | |
| Patch (clothes) | elbow | iup: wearable | |
| Poor | elbow | iup: wearable | |
| Punish | elbow | ma: lifting by collar and striking with rod | |
| Tempt | elbow | asp: surface | cover |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|-------------|--------------------------|-----------------------|
| Bandage | wrist, back | iup: wearable | |
| Bracelet | wrist, back | iup: wearable | |
| Clock | wrist, back | lsa: time | |
| Cut | wrist, back | eap: cut | |
| Doctor | wrist | ma: check pulse | |
| Duty | wrist, back | ? | |
| Nurse | wrist | ma: check pulse | |
| Psychiatrist | wrist | ma: check pulse | |
| Slave | wrist, back | ma: bound hands | |
| Time | wrist, back | lsa: time | |
| Vein | wrist | bp: vein | |
| Watch | wrist, back | iup: wristwatch | |
| What-time? | wrist, back | lsa: time | |
| Wrist | wrist | bp: wrist | |
| X-o'clock | wrist, back | lsa: time | |

Table 27: ASL Location: Wrist

Table 28: ASL Location: Stomach

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|----------------------|-----------------|--------------------------|-----------------------|
| Become-fat | stomach | bp: fat | |
| Belt | stomach | iup: wearable | |
| Birthday* | stomach, uterus | fop: giving birth | |
| Disgust | stomach | eap: illness | emotion: disgust |
| Pregnant | stomach | bp: stomach | |
| Sick* | stomach | eap: illness | |
| Sick-upset (stomach) | stomach | eap: illness | |
| Stomach | stomach | bp: stomach | |
| Upset | stomach | eap: illness | emotion: anger |

Table 29: ASL Location: Waist

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|-----------------------|--------------------------|-----------------------|
| Bathing suit* | waist, ipsi | iup: wearable | |
| Brag | waist | bp: chest | chest for self |
| King* | shoulder to waist | iup: wearable | person |
| Kingdom* | shoulder to waist | iup: wearable | person |
| Lord* | shoulder to waist | iup: wearable | person |
| Navy | waist, contra to ipsi | iup: wearable | person |
| Bikini* | chest, waist | iup: wearable | |
| Pager | waist, ipsi | iup: wearable | |
| Pants | waist | iup: wearable | |
| Penguin | waist, sides | ap: penguin wings | |

| Penis (formal) | waist | bp: penis | |
|----------------|-----------------------------------|---------------|--------|
| Pocket | waist, sides | iup: wearable | |
| Prince* | shoulder to waist | iup: wearable | person |
| Princess* | chest, contra to ipsi to waist | iup: wearable | person |
| Queen* | shoulder to waist | iup: wearable | person |
| Royal* | shoulder to waist | iup: wearable | person |
| Skirt | waist | iup: wearable | |
| Underwear | waist | iup: wearable | |
| Waist | waist | bp: waist | |
| Zipper* | waist to chest to waist | iup: wearable | |

Table 30: ASL Location: Legs

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|-------------|--------------------------|-----------------------|
| Lap | legs, front | bp: lap | |
| Leg | leg, side | bp: leg | |
| Shorts | leg, front | iup: wearable | |

APPENDIX B

AUSLAN SIGNBANK DATA

Multiple glosses are given in the Auslan Signbank (<u>www.auslan.org.au</u>) and they are all included below in the English gloss column. Each group of glosses should serve as a unique identifier if other researchers need to look up the sign in the Signbank.

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|----------------|---|-----------------------|
| accommodation, hostel, hotel, motel, boarder, billet, dormitory, stay over, accommodate, board | side | ma: sleeping | |
| age, how old? | face, in front | bp: face | age |
| age, old | face, in front | bp: face | age |
| angel, saint, halo, angelic, saintly | top, above | iup: wearable | person |
| face, looks, look like, take after, seem, appear, resemble | face, in front | bp: face | |
| face, features, looks, appearance alt | face, in front | bp: face | |
| shame, embarrassment, blushing, ashamed, embarrassed, embarrass, blush, shameful | face, in front | fop: facial expression | emotion: shame |
| air, breeze, breezy, airy, atmosphere, mood | face, in front | eap: feel air on face | |
| attention, blinkers, attend, attentive, single minded | face, in front | fop: seeing | |
| autumn, cool, fresh, freshen | face, in front | eap: feel air on face | |
| ceiling, awning, covering, shade, room, overhead, shaded | top, above | asp: height | |
| bald, baldness | top | bp: hair | |
| barber | side | eap: shave | person |
| court, judge, trial, lawyer, solicitor, barrister, tried, legal | sides | iup: wearable | person |
| bedroom | side | ma: sleeping | |
| befuddlement, disorientation, derangement, craziness, delirium, befuddled, disoriented, deranged, crazy, demented, delirious | sides | fop: cognition | |
| beret | top | iup: wearable | |
| boarding school | side | ma: sleeping | |
| misunderstanding, misunderstand, bewilder | top, above | bor: English idiom: "over the head" | |
| nastiness, bitch, nasty, mean | face, in front | fop: facial expression (possibly fop: seeing) | emotion: unkind |
| blonde, blond | side | bp: hair | person |

Table 31: Auslan Location: Head

| boss, foreman, manager, captain, | side | asp: height | rank for person |
|--|-------------------------|--------------------------|--------------------|
| superior, chief bossy, domineering, overbearing, | side | asp: height | rank for |
| boss | | 1 0 | character |
| plait, braid | side | bp: hair | |
| plait, braid, plaited, braided | side | bp: hair | |
| bream | top | ap: dorsal fin | creature |
| wind, breeze, windy, airy | face, in front | eap: feel air on face | |
| brightness, bright, brighten | face, in front | fop: seeing | |
| horns, bull, devil | top | ap: horns | creature |
| bun, hair bun | top, back | bp: hair | |
| statue, bust | face, in front | asp: statue bust | |
| taxi, cab | top | ap: light on top of cab | |
| camera, photograph | face, in front | iup: camera | |
| centurion, Roman | top | iup: wearable | person |
| minister, chief executive, CEO, president, principal, headmaster, headmistress | sides | asp: height | rank for person |
| chastened, humiliated | top | ma: dog ears drooping | |
| chef, kitchen | top | iup: wearable | person |
| chrome, chromium, gleam | sides | fop: seeing | |
| cochlear | side | iup: wearable | |
| crest, cockscomb, punk, cockatoo | top, back to front | ap: crest | |
| comb | side | iup: comb | |
| concentration, concentrate | sides | fop: seeing | |
| crown, coronation | sides | iup: wearable | |
| crown, coronation, coronate | sides | iup: wearable | |
| crankiness, grumpiness, grouchiness, grump, grouch, irritability, cranky, cross, grumpy, grouchy, irritable, disagreeable | face, in front | fop: facial expression | emotion: unkind |
| craziness, insanity, madness, looniness, loony, loopy, crazy, insane, mad | side | fop: cognition | |
| crewcut | top | bp: hair | |
| curls, curly | side | bp: hair | |
| fire brigade, firefighter | top, back to front | iup: wearable | person |
| firefighter, fireman, fire brigade* | chin to back of head | iup: wearable | person |
| wash face, face washer, face cloth, face flannel, flannel, hand towel | face, in front | bp: face | |
| facial expression, express, expressive | face, in front | fop: facial expression | |
| fan | face, in front | eap: feel air on face | |
| dizziness, giddiness, dizzy, giddy, drunk | face, in front | fop: cognition | |
| gleeful | face, in front | fop: facial expression | emotion: happy |
| handsome, good-looking | face | bp: face | appearance |

| helmet, hard hat | top | iup: wearable | |
|--|----------------------|----------------|---------------|
| hat, cap | top | iup: wearable | |
| head, hat | top | bp: head | |
| style, class, sophistication, affluence, prestige, distinguished, prestigious, reputable, affluent, wealthy, highbrow, formal | side | bp: hair | social status |
| hair | side | bp: hair | |
| hairdressing, hairdresser, hair cut | side | bp: hair | person |
| hair spray, spray | side | iup: hairspray | |
| half hour | face | asp: clockface | time |
| stupid, stupidity, idiocy | top | fop: cognition | |
| drunkard, tipsy, merry, drunk, inebriated, sloshed, pissed | face, in front | fop: cognition | |
| front, in the front, in front of, face, front up to | face, in front | asp: front | |
| mentally disabled, mental disability, intellectually disabled, intellectual disability | top | fop: cognition | |
| narrow-mindedness, small- mindedness, intolerance, narrow- minded, small-minded, intolerant | sides | fop: cognition | |
| monarch, sovereign, king, queen, royalty, royal | top | iup: wearable | person |
| logic, logical | side | fop: cognition | |
| make the bed | side | ma: sleeping | |
| minutes | face, in front | asp: clockface | time |
| pope, mitre | side to top | iup: wearable | person |
| black, Negro, Aborigine, aboriginal | face | qop: black | |
| nightdress, nightie, pyjamas* | side, chest to waist | ma: sleeping | |
| matron, nun | top to shoulder | iup: wearable | person |
| old-fashioned* | face, in front | bp: face | age |
| common knowledge, common, old hat, used to | top | fop: cognition | |
| accommodation, hostel, hotel, motel, boarder, billet, dormitory, stay over, accommodate, board | side | ma: sleeping | |

| Table 32: Auslan L | ocation: Forehead |
|--------------------|-------------------|
|--------------------|-------------------|

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|----------|--------------------------|-----------------------|
| forgetfulness, forgetful, absent- minded | temple | fop: cognition | |
| experience, familiarity, skill, experienced, familiar, skilled | forehead | fop: cognition | |
| invention, concoction, fantasy, fiction, guesswork, speculation, make up, invent, concoct, contrive, ad lib, guess | forehead | fop: cognition | |

| adult | temple | asp: height | person |
|---|--------------------|--------------------------|-------------|
| flight attendant, flight steward, air- hostess | forehead | iup: wearable | person |
| intention, aim, goal, objective (aim), ambition, intend, strive, ambitious | forehead, in front | fop: cognition | |
| antlers, deer, reindeer | temples | ap: antlers | creature |
| disbelief, disbeliever, sceptic, atheist, non-believer, atheism, disbelieve, unconvinced, sceptical | temple | fop: cognition | |
| grudge, revenge, vengeance, avenge | temple | fop: cognition | |
| prize, award, souvenir, memory, memorise, remember (a reward for memory, or a souvenir) | temple | fop: cognition | |
| christening, baptism, christened, baptised | forehead | ma: christening | |
| belief, conviction, creed, believe, convinced | temple | fop: cognition | |
| believe in | temple | fop: cognition | |
| tabula rasa, no idea, blank mind | forehead | fop: cognition | |
| boo-boo, oops | temple | fop: cognition | |
| brain | temple | bp: brain | |
| genius, intellect, brilliant, brainy | temple | fop: cognition | |
| brilliant | temple | fop: cognition | |
| open-mindedness, broad-mindedness, tolerance, open-minded, broad- minded, tolerant, liberal | forehead | fop: cognition | |
| busybody | temple | fop: cognition | person |
| conductor, cap, visor | temple | iup: wearable | person |
| craziness, recklessness, crazy, reckless, careless, dreamy, intoxicated | temple, side | fop: cognition | |
| Catholicism, Catholic, Christian | forehead | ma: crossing forehead | |
| cow, cattle, bull | forehead | ap: horns | creature |
| change mind, reconsider, second thoughts, reconsideration | temple, side | fop: cognition | |
| well-known, famous, celebrity | temple, side | fop: cognition | fame/status |
| hopeless, lousy, childish, puerile | temples | fop: cognition | |
| christening, baptism, christen, baptise, christened, baptise | forehead | ma: christening | |
| clever, smart, brilliant, intelligent, wise, intelligence, wisdom, cleverness, smartness | temples | fop: cognition | |
| oblivious, vacant, ignorant, clueless, unaware | forehead | fop: cognition | |
| teaching, instruction, education, coach, teach, instruct, educate, educational | forehead | fop: cognition | person |
| silliness, crudeness, grossness, coarseness, ridiculous, absurd, silly, crude, gross, coarse | temple | fop: cognition | |
| cockroach | temples | ap: antennae | creature |

| | 1 | C | |
|--|--------------------|----------------|--------------|
| cogitation, conscience, thoughtful, conscientious | temple | fop: cognition | |
| commemoration, keepsake, souvenir, memento, recollection, remembrance, memorial, commemorate, recall | temple | fop: cognition | |
| committee | temple | fop: cognition | group |
| common knowledge, common, old hat, used to | temple | fop: cognition | |
| understanding, comprehension, understand, comprehend | forehead | fop: cognition | |
| imagine, visualise, envisage, conceive, image, concept, imagination, conception, picture | forehead, in front | fop: cognition | |
| worry, anxiety, concern, fret, worried, anxious, concerned, fretful | temple, side | fop: cognition | |
| confusion, mix up, confuse, confused, mixed up | temple, side | fop: cognition | |
| conscience | temple, side | fop: cognition | |
| consideration, reflection, rumination, consider, wonder, ponder, reflect, ruminate | temple, side | fop: cognition | |
| convert, conversion | temple | fop: cognition | |
| country, nation, nationality, countryside | temple | ?? | |
| crazy | temple | fop: cognition | |
| enthusiastic, enthusiastic about, keen, keen on, crazy about | temple | fop: cognition | |
| creation, creative, imaginative, create, imagine | temple | fop: cognition | |
| cub, salute | temple | ges: salute | |
| curl, curly, ringlet | temple | bp: hair | |
| daydream | temple | fop: cognition | |
| decision, decide | temple | fop: cognition | |
| go blank (forget), forget, dementia | temple | fop: cognition | |
| determination, obsession, determined, obsessed, obsessive | temple | fop: cognition | |
| enlightenment, enlightened, enlighten | temple | fop: cognition | |
| telepathy, ESP | forehead, front | fop: cognition | |
| faith, belief, believe* | forehead, heart | fop: cognition | |
| experience, familiarity, skill, experienced, familiar, skilled | forehead, heart | fop: cognition | |
| girl (older sign) | forehead, middle | lsa: female | |
| girlfriend | forehead, middle | lsa: female | |
| university, mortarboard, graduate | forehead, front | iup: wearable | person/place |
| headache | temple | eap: illness | |
| hi, hello | forehead, side | ges: salute | |
| hide-and-seek | forehead | fop: seeing | |
| idea, idea (get idea) | temple | fop: cognition | |
| idiot, idiotic | forehead, side | fop: cognition | |
| ignoramus, moron, thick | temple | fop: cognition | |

| ignorance, dimwit, dunce, ignorant | temple | fop: cognition | |
|--|------------------|-----------------|----------|
| not clever, ignorance, inexperience, immaturity, simpleton, ignoramus, dim witted, ignorant, uneducated, ill- informed, inexperienced, unwise | forehead, across | fop: cognition | |
| imagine, imagination | temple | fop: cognition | |
| influence, influential | temple | fop: cognition | |
| knowledge, know, knowledgeable, yeah | temple | fop: cognition | |
| know finish (been there, done that), learn my lesson | forehead | fop: cognition | |
| learning, learn | forehead, middle | fop: cognition | |
| information, explanation, description, inform, explain, describe, make known, let know | forehead | fop: cognition | |
| lifesaver, lifeguard | forehead | iup: wearable | |
| lion, mane | temple | ap: mane | creature |
| memory, remember, recall, memorise, recollect, remembrance, recollection, memorisation | forehead | fop: cognition | |
| mental | forehead, across | fop: cognition | |
| mind, mental, crazy, silly | temple | fop: cognition | |
| minor, unimportant, insignificant | temple | ?? | |
| devil, Satan, evil, mischievous | forehead | ap: horns | creature |
| misinterpret, misunderstand, misinterpretation, misunderstanding | forehead, side | fop: cognition | |
| mull over, think, thinking | temple | fop: cognition | |
| mum, mummy, mother | forehead, side | bp: hair | female |
| name, reputation, call (name), named, called | forehead, side | lsa: name | |
| nickname, sobriquet, call (name), name, called (named), named | forehead, side | lsa: name | |
| not know, don't know | forehead, side | fop: cognition | |
| not mind, don't mind | temple | fop: cognition | |
| rabbit, bunny, bunny rabbit, hare | temple | ap: rabbit ears | creature |

| Table 33: Auslan Location: I | Eyes |
|------------------------------|------|
|------------------------------|------|

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|----------------|--------------------------|-----------------------|
| recognition, recognise, acknowledgment, acknowledge | eye, under | fop: seeing | |
| alertness, astonishment, alert, wide- awake, astonished, impressed | eye | fop: opening | |
| telescope, astronomy, astronomer | eye, in front | iup: telescope | |
| wakefulness, consciousness, wake, awaken, awake, conscious, aware | eye | fop: opening | |
| care, careful, beware | eye, under | fop: seeing | |
| simpleton, bewildered | eyes, in front | fop: seeing | |
| biased, one-eyed | eye, over | fop: seeing | |
| binoculars, field glasses | eyes | iup: binoculars | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|-----------------------|-----------------------------|-----------------------|
| black eye | eye | eap: bruise | |
| blind, screen, awning, eye-guard | eyes, in front | fop: seeing | |
| blink, wink, pretend | eye | fop: blink | |
| braille | eyes, in front | fop: seeing | |
| bull's-eye | eye | bor: English: bull's eye | |
| thief, burglar | eye | iup: wearable | person |
| look after, take care, carer | eye, below | fop: seeing | |
| checking, testing, trialing, trial, assessment, check-up, check, test, try out, assess | eye, below | fop: seeing | |
| obvious, plain, evident, clear, obviously, plainly, evidently, clearly | eye, below | fop: seeing | |
| VDU, visual display unit, display screen, computer screen | eyes, below | fop: seeing | |
| contact lenses | eyes, in front | iup: wearable | |
| contraction, contract | eye, in front | fop: contraction | |
| tears, crying, weeping, cry, weep | below | fop: crying | |
| dark, darkness, darken | eyes, in front | fop: seeing | |
| glasses, spectacles* | nose-to-ear | iup: wearable | |
| eyeball, glass eye | eye, front | bp: eye | |
| goggles | eye, around | iup: wearable | |
| grandmother, gran, nana, nan | eye, below | ?? | |
| examine, have a look, let's see | eye, below | fop: seeing | |
| visit, inspection, visitor, inspect | eye, below | fop: seeing | |
| intention, aim, goal, objective (aim), ambition, intend, strive, ambitious | eye, in front | fop: seeing | |
| eye-popping, ogle at, keen on | eye, eyebrow | fop: seeing | |
| kidding | eye, under | ges: eye-pulling | |
| sheep, mutton, lamb | eye, under | ap: sheep ears | creature |
| look, regard, observation, watch (look), observe, stare | eye, below | fop: seeing | |
| search, look for, seek | eye, below | fop: seeing | |
| mask | eye, around | iup: wearable | |
| miss, overlook, miss out, missing | eye, below eye | fop: seeing | |
| wonder, delight, marvel, miracle, wonderful, delightful, astonishing, marvellous, terrific, miraculous, holy, divine | eye, below eye | fop: seeing | |
| prettiness, attractiveness, pretty, good-looking, attractive | eye, below | fop: seeing | |
| natural, normal, of course, naturally | eye, below | fop: seeing | |
| nightly | eye, in front, across | fop: seeing | |
| not see, see not, don't see, overlook | eye, below | fop: seeing | |
| untried, new, novelty, novel | eye, below | fop: seeing | |
| observation, observe | eye, below | fop: seeing | |
| notice, observe | eye, below | fop: seeing | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--|---------------|--------------------------|-----------------------|
| overlook, disregard, neglect, omission, omit | eye, side | fop: seeing | |
| onion | eye, in front | fop: crying | |
| opaque | eye, below | fop: seeing | |
| optometrist, optician | eye, below | fop: seeing | person |
| owl | eye, in front | ap: owl eyes | creature |

Table 34: Auslan Location: Ears

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|-------------------|--------------------------|-----------------------|
| headphone, earphone, audiologist, audiology | ear, side of head | iup: wearable | |
| auditory-verbal* | mouth, ear | fop: hearing | |
| telephone, phone, call (telephone) | ear | iup: phone | |
| cherry | ear, side | ?? | |
| deaf, deaf and dumb, deaf mute* | ear, mouth | fop: hearing | |
| deaf club | ear | fop: hearing | |
| deafen | ear, side | fop: hearing | |
| ear, ear lobe | ear | bp: ear | |
| earache | ear | eap: illness | |
| earring | ear | iup: wearable | |
| Alsatian, German shepherd | ear | ap: ears | creature |
| hear, listen, hear of, hear about | ear | fop: hearing | |
| hear about, hear of, listen, hear | ear | fop: hearing | |
| hearing, hear about | ear | fop: hearing | |
| hearing-aid, hearing aid | ear | fop: hearing | |
| hearing dog* | ear, chin | fop: hearing | |
| hearing impaired | ear | fop: hearing | |
| loud, noisy | ear | fop: hearing | |
| mobile phone | ear | iup: phone | |
| film, movie, picture, cinema, movie theatre | ear, side of head | fop: hearing | |
| sound, noise, noisy | ear | fop: hearing | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|----------------|---------------------------|-----------------------|
| able, can, could, may | nose | lsa: possibility/luck | |
| luck, chance, lucky, fortunate, luckily, fortunately, accidentally | nose | lsa: possibility/luck | |
| amphetamine | nose, under | ma: snorting drugs | |
| bad luck, misfortune, shame, unfortunate, unfortunately | nose | lsa: possibility/luck | |
| bear, koala | nose | ap: nose | creature |
| joke, fake, bluff, artificial | nose | ?? | humor |
| fart, farting, smell, odour, break wind, smelly | nose, in front | fop: smell | |
| brevity, insignificance, trivia, brief, trivial, insignificant, briefly | nose | asp: central | timeline |
| budgerigar | nose | ap: beak | creature |
| none of one's business, none of your business, business (none of your business) | nose | bor: English: "nosy" | |
| improbable, implausible, cannot, can't, may not, unable, couldn't | nose | lsa: possibility/luck | |
| carrot | nose | asp: length | |
| of course, certainly, obviously | nose | ?? | |
| clown | nose | iup: wearable | humor |
| cold (illness), flu, influenza | nose | eap: illness | |
| sticky-beak, curiosity, nosey, pry, curious | nose | bor: English: "nosy" | |
| democracy | nose | ?? | |
| parrot, eagle | nose | ap: beak | creature |
| eldest | nose, side | ?? | |
| elephant, trunk (elephant) | nose | ap: trunk | creature |
| hero, star (filmstar), goodies, filmstar | nose | ?? | |
| rubbish (waste), garbage, waste (rubbish) | nose, front | fop: smell | |
| flower, garden, gardening, gardener, florist, nursery | nose, sides | fop: smell | |
| petrol, gasoline | nose, front | fop: smell | |
| glasses, spectacles* | nose-to-ear | iup: wearable | |
| handkerchief | nose | iup: handkerchief | |
| impossible, impossibility | nose | lsa: possibility/luck | |
| intuition, sense, intuit, intuitive | nose, side | ges: tapping side of nose | |
| undetectable, invisible, disappear, missing, disappearance | nose | fop: seeing | |
| kid | nose, under | bor: ASL: KID | |
| possibility, potential, possible, probable, likely, possibly | nose | lsa: possibility/luck | |
| nose, nasal | nose | bp: nose | |
| smell, odour | nose | fop: smell | |

Table 35: Auslan Location: Nose

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|------------|--------------------------|-----------------------|
| fun, oops | nose | iup: wearable | humor |
| oyster | nose, side | ?? | creature |

Table 36: Auslan Location: Cheek

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|-------------------------|--------------------------|-----------------------|
| acne | cheek | eap: illness | |
| afternoon, good afternoon* | cheek, chin | ?? | |
| toilet, washroom, bathroom, amenities | cheek, top to bottom | ?? | |
| every, always | cheek | asp: central | timeline |
| fun, amusement, strangeness, queerness, weirdness, oddity, funny, humorous, strange, odd, weird, queer | cheek | ?? | |
| telephone call, answer telephone | cheek | iup: phone | |
| attempt, try | cheek, top to bottom | ?? | |
| beach, picnic | cheek | fop: eating | |
| meat, flesh, beef, steak, butcher, butcher's | cheek | bp: meat | |
| before | cheek | asp: central | timeline |
| black, blacken | cheek | qop: black | |
| bow (archery), aim (arrow) | cheek | ma: pulling bowstring | |
| lolly, sweets, candy | cheek | fop: eating | |
| comic, comic book, cartoon | mouth, side | fop: speaking | |
| cat, pussy, pussy-cat, whiskers | cheek | ap: whiskers | creature |
| champion | cheek | ?? | |
| cheat | cheek | fop: eating | |
| cheek, rudeness, impertinence, impudence, insolence, cheeky, rude, impertinent, impudent, insolent | cheek | bor: English: 'cheeky' | |
| chocolate | cheek | fop: eating | |
| exact, purity, clarity, accuracy, precision, exactness, spotless, pure, clear, clarify, precise, accurate | cheek | ?? | |
| corn, cob | cheek, side | fop: eating | |
| make-up, cosmetics | cheek | iup: wearable | |
| cued-speech | cheek, in front | ma: cued-speech | |
| cheat, cheating, foul play, scar, sly, cunning, cheat, playful | cheek, top to bottom | eap: scar | |
| cutthroat razor, razor, shave | cheek | eap: shaving | |
| day, daytime, date | cheek | asp: central | timeline |
| tidiness, orderliness, neatness, propriety, decency, tidy, orderly, neat, proper, decent, clean | cheek | ?? | |

| wilfulness, obstinacy, deliberate, intentional, wilful, headstrong, obstinate, deliberately, intentionally, wilfully, on purpose | cheek | bor: English: 'cheeky' | |
|---|---------------|------------------------|------------------------|
| exquisite, magnificent, delightful | cheek | bp: face | appearance |
| not matter, matter not, doesn't matter, never mind, anyway, however, despite | cheek | ?? | |
| simplicity, simpleton, simple, easy, simplify, simply, briefly, only, just | cheek | ?? | |
| shaver, electric shaver, shave* | cheek, chin | eap: shaving | |
| lady, woman, lady-like, feminine, womanly, female | cheek | bp: face | ?appearance for female |
| fashion, magic, fashionable, modern, magical | cheek | bp: face | appearance |
| girl | cheek, contra | bp: face | ?appearance for female |
| heater | cheek | ?? | |
| hero, heroine, star* | chin, cheek | bp: face | appearance |
| hippopotamus | cheek | ap: hippo's mouth | creature |
| telephone, phone, call (telephone), handset | cheek | iup: phone | |
| jam, preserve, honey | cheek | fop: eating | |
| week, last week | cheek | asp: central | timeline |
| yesteryear, last year | cheek | asp: central | timeline |
| lemon | cheek | fop: eating | |
| niece | cheek, contra | bp: face | ?appearance for female |
| nude, nudist | cheek, around | bp: skin | |
| rude, offensive | cheek | bor: English: 'cheeky' | |
| painful, sore, ouch | cheek | eap: pain | |

Table 37: Auslan Location: Mouth

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--|-------------|--------------------------|-----------------------|
| glue, paste, adhesive, sticker, label, adhere | mouth | fop: licking | |
| promise, admission, admit | mouth | fop: speaking | |
| face mask, anaesthetic, anaesthetist | mouth | iup: wearable | person |
| ask, request, enquire, enquiry | mouth | fop: speaking | |
| ask around, make enquiries, enquire | mouth | fop: speaking | |
| auditory-verbal* | mouth, ear | fop: speaking | |
| distasteful, disagreeable, dislike, distaste, aversion | mouth, side | fop: taste | |
| garlic, bad breath | mouth | fop: breathing | |
| balloon | mouth | iup: balloon | |
| duck, beak, bill, goose, geese, quack | mouth | ap: beak | creature |
| drink, beverage, glass (cup), cup | mouth | fop: drinking | |

| mouth | for: speaking | person |
|-------------------------|---|--|
| moutii | Top. speaking | person |
| | | |
| mouth | qop: red | |
| mouth, in front | fop: speaking | |
| mouth, armpit | fop: eating | |
| mouth | fop: breathing | |
| mouth, in front | iup: toothbrush | |
| mouth | fop: chewing | |
| mouth | fop: eating | |
| mouth, side | fop: speaking | |
| mouth, side | fop: speaking | person |
| mouth | fop: speaking | |
| mouth | ap: beak | creature |
| mouth | ap: beak | creature |
| mouth | ?? | |
| mouth, in front | fop: eating | |
| mouth, side | fop: speaking | person |
| mouth | fop: smoking | |
| mouth | ?? | |
| mouth | fop: speaking | |
| mouth | fop: speaking | |
| mouth, side | fop: eating | |
| mouth | fop: speaking | |
| mouth, ear | fop: speaking | person |
| mouth, in front, nmm | ma: clenching mouth | |
| mouth, side | bp: teeth | person |
| mouth, nmm | iup: dentures | |
| mouth, in front | fop: speaking | |
| mouth, in front | fop: speaking | |
| mouth, in front | fop: licking | |
| mouth, in front | ma: fellatio | |
| mouth, side | bp: teeth | person |
| mouth, side | fop: eating | |
| mouth, in front | fop: eating | |
| mouth, in front | asp: thin | |
| mouth, side | fop: speaking | |
| mouth | fop: eating | |
| | mouth, in frontmouth, armpitmouthmouth, in frontmouthmouth, sidemouth, sidemouth, sidemouthmouthmouthmouthmouthmouthmouthmouthmouthmouthmouthmouthmouthmouth, sidemouthmouthmouthmouthmouthmouthmouthmouthmouthmouth, sidemouth, in front,mouth, in frontmouth, in frontmouth, in frontmouth, in frontmouth, in frontmouth, sidemouth, in frontmouth, in frontmouth, sidemouth, in frontmouth, sidemouth, in frontmouth, side | mouthqop: redmouth, in frontfop: speakingmouth, armpitfop: ceatingmouth, armpitfop: breathingmouth, in frontiup: toothbrushmouthfop: chewingmouth, in frontiup: toothbrushmouthfop: chewingmouth, sidefop: speakingmouth, sidefop: speakingmouthap: beakmouthap: beakmouthfop: speakingmouthfop: speakingmouthfop: speakingmouthfop: speakingmouth, in frontfop: speakingmouth, sidefop: speakingmouthfop: speakingmouthfop: speakingmouthfop: speakingmouthfop: speakingmouthfop: speakingmouthfop: speakingmouthfop: speakingmouth, in frontfop: speakingmouth, in front, mmma: clenching mouthmouth, in frontfop: speakingmouth, in frontfop: eatingmouth, |

| marijuana, pot (marijuana), grass (marijuana), weed (marijuana), joint (marijuana), dope (marijuana), smoke (marijuana) | mouth | fop: eating | |
|--|-----------------|--------------------------|----------|
| thankful, grateful, appreciate, appreciative, appreciation, gratefulness, thank | mouth, front | bor: ASL: THANK- YOU | |
| marijuana, hashish, dope (marijuana), smoke (marijuana), hash (marijuana) | mouth | fop: smoking | |
| ice-cream, ice-cream cone, ice-block, icy-pole | mouth, in front | fop: eating | |
| drink, imbibe | mouth, in front | fop: drinking | |
| innocent, inexperienced, naive, wide- eyed, green (inexperienced) | mouth* | ?? | |
| interval, interim, brief, temporary, provisional, while, during, briefly, momentary, fleeting | mouth, in front | ?? | |
| interviewer, interview, reporter | mouth | fop: speaking | person |
| keep quiet | mouth, lips | ges: zip lips | |
| kiss | mouth, lips | fop: kissing | |
| kiwi | mouth, in front | ap: beak | creature |
| law, lawyer, legal | mouth, in front | fop: speaking | person |
| lie, liar | mouth | fop: speaking | person |
| lip | mouth, lips | bp: lip | |
| lip reading, speech reading, oralism, lip read, oral | mouth, in front | fop: speaking | |
| lipstick | mouth, in front | iup: wearable | |
| spite, malice, spiteful, malicious | mouth | fop: speaking | |
| melon, watermelon | mouth, in front | fop: eating | |
| mouse, mice | mouth, in front | ?? | creature |
| mouth, mouthing | mouth, in front | bp: mouth | |
| mug, stein | mouth | fop: eating | |
| wolf, fox, muzzle, snout | mouth, face | ap: snout | creature |
| snack food, nibblies, nibbles, nibble | mouth | fop: eating | |
| none of your business* | mouth, chest | fop: speaking | |
| not care, don't care, dismiss, reject | mouth? face? | bor: ASL: DON'T- CARE | |
| opera, opera singer | mouth, side | fop: speaking | person |
| orange | mouth, side | fop: eating | |
| orange juice | mouth, side | fop: eating | |
| shame, outrage, obscenity, disgust, revulsion, shameful, disgusting, revolting, rude | mouth, side | fop: speaking | |

| Table 38: Auslan L | ocation: Chin |
|--------------------|---------------|
|--------------------|---------------|

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|----------------------------|-------------|--------------------------|-----------------------|
| afternoon, good afternoon* | cheek, chin | lsa: noon | |
| agape, flabbergasted | chin | ma: jaw dropping | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|-------------------------|----------------------------|-----------------------|
| alcoholic, alcoholism | chin | fop: drinking | |
| amazing! incredible! | chin | fop: speaking | |
| announce, notify, advise, proclaim, report, announcement, notification, proclamation | chin | fop: speaking | |
| apology, forgiveness, apologise, forgive | chin | fop: speaking | |
| apple, fruit | chin, under | fop: eating | |
| awful, dreadful, horrible | chin | ?? | |
| banquet, feast | chin | ?iup: wearable | |
| bark, growl | chin, side | fop: speaking | |
| battery | chin | fop: licking | |
| beauty, loveliness, prettiness, beautiful, lovely, pretty, beautify | chin | bp: face | appearance |
| beer, booze, alcohol, pub, hotel | chin | fop: drinking | |
| bet, wager, challenge, dare | chin | fop: speaking | |
| bird, chicken, fowl, poultry, birdie | chin | ap: beak | creature |
| bishop | chin | ma: kissing ring | |
| bite | chin | fop: biting | |
| bootmaker | chin | ?? | |
| boredom, bore, boring, bored, trivial, insignificant | chin | ?? | |
| boy | chin | lsa: male | |
| boyfriend | chin | lsa: male | |
| boyfriend, girlfriend | chin | lsa: male | |
| boyfriend, girlfriend, couple, go steady | chin | lsa: male | |
| brown | chin | qop: brown | |
| cafe, cafeteria, canteen | chin | fop: eating | |
| chin | chin | bp: chin | |
| Christmas, Santa Claus, Father Christmas | chin | bp: beard | person |
| coat-hanger | chin | asp: place to hang coat | |
| contemplate, mull over, ponder, think | chin | ma: stroke chin | cognition |
| cousin | chin, side | ?? | - |
| cute | chin | bor: ASL: CUTE | |
| double talk, lies, bullshit, lie | chin | fop: speaking | |
| electricity, power, electric, electronic, electrical | chin | asp: lightbulb filament | |
| fake, forgery, imitation, copy, impostor, forged, forge, imitate, artificial, deceive, betray | chin | ?fop: speaking | |
| firefighter, fireman, fire brigade* | chin to back of head | iup: wearable | person |
| full, enough, sufficient, suffice, fed up | chin, under | bor: ASL: FED-UP | |
| gentleman* | chest, chin | bp: beard | male |
| get lost, good riddance | chin | fop: speaking | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|----------------|----------------------------|-----------------------|
| gibberish, speechless, dumbfounded, puzzled | chin | fop: speaking | |
| giggle, laugh | chin | fop: laughing | |
| goat | chin | ap: beard | creature |
| hearing dog* | ear, chin | fop: speaking | |
| hero, heroine, star* | chin, cheek | ?? | |
| hot, hotness, temperature, heat | chin | fop: eating | |
| in case | chin, side | ?fop: speaking | |
| instant, moment, temporary, briefly, momentarily, suddenly | chin, in front | asp: central | timeline |
| jealousy, envy, jealous, envious | chin | ges: finger-biting | |
| joke, gag, joker, jest | chin | fop: speaking | |
| kookaburra | chin | ap: beak | creature |
| laughter, mirth, humour, comedy, hilarity, laugh, cheerful, humorous, hilarious | chin | fop: laughing | |
| laughter, mirth, humour, comedy, hilarity, laugh, cheerful, humorous, hilarious | chin | fop: laughing | |
| lesbian | chin | bor: ASL: LESBIAN | |
| letter, missive, correspondence, application, correspond, apply | chin | ma: wet with mouth | |
| light, light up, lighten, illuminate | chin | asp: lightbulb filament | |
| light, light up, lighten, illuminate | chin, in front | asp: lightbulb filament | |
| lighten, light, pale | chin, in front | asp: lightbulb filament | |
| little, few, soon | chin | ?? | |
| lizard | chin, under | ap: tongue | creature |
| lunch, sandwich | chin | fop: eating | |
| man, men, male, masculine | chin | bp: beard | male |
| meanness, miser, mean, stingy, miserly | chin | qop: hardness | |
| microphone, announcer, radio journalist, TV journalist, announcement, announce | chin, under | iup: microphone | person |
| nephew | chin | lsa: male | |
| nice | chin | ?? | |
| noon | chin | lsa: noon | |
| not care, care not, don't care, careless, indifference, reckless, negligent, clumsy, reckless, indifferent, clumsiness, neglect, recklessness, carelessness | chin, under | ?? | |
| not enough, insufficient | chin | bor: ASL: FED-UP | |
| nut, peanut | chin | fop: eating | |
| pleading, begging, plead, beg | chin | fop: speaking | |
| possession? | chin | fop: speaking | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--|---------------|--------------------------|-----------------------|
| price, cost, charge, how much | chin | ?? | |
| rock, stone, stony, rocky, metal, iron, metallic, stony, rocky | chin | qop: hardness | |
| saccharine, sweet, likeable, agreeable | chin | fop: taste | |
| shaver, electric shaver, shave* | cheek, chin | iup: shaver | |
| shyness, timidity, bashfulness, shy, timid, bashful | chin | ?? | |
| sign-name, name-sign | chin, side | ?? | |
| snake, hiss, bitch, bitchy | chin | ap: tongue | creature |
| sour, bitter | chin | fop: eating | |
| speechless, flabbergasted, dumbfounded, open-mouthed, gape, agape | chin | ma: jaw dropping | |
| suppose, if, pretend, assume, pretence, assumption, estimate, estimation, say (for instance), for example | chin, side | ?fop: speaking | |
| tightness, endurance, tight, tighten | chin | ?? | |
| user, cadger, scrounger, bludger, use, cadge, scrounge, bludge | chin | ?? | |
| vomit, chunder, vomiting, throw up* | chest to chin | fop: vomit | |

Table 39: Auslan Location: Neck

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|----------------------|------------------------------|-----------------------|
| abattoir, slaughter | neck, contra to ipsi | ma: cut-throat | butchering |
| thirst, wish, attraction, thirsty, desire, covet, desirable, horny, sexy, randy | neck | fop: drinking | desire |
| beaded necklace, beads | neck, contra to ipsi | iup: wearable | |
| bow tie | neck, in front | iup: wearable | |
| butcher | neck, side | ma: cut-throat | butchering |
| carburettor | neck | fop: breathing | |
| choke, stuck, trapped | neck | eap: choke | |
| chops (cut of meat) | neck, side | ma: cut-throat | butchering |
| fat, overweight, chubby, obese | neck, sides | qop: fat | |
| priest, father, vicar, clergy, minister, dog-collar | neck | iup: wearable | person |
| collar, collared | neck | iup: wearable | |
| thirst, thirsty, crave, hanker, keen, lust | neck | fop: drinking | desire |
| criminal, scoundrel, cut-throat, crime, Mafia | neck, side | bor: English: 'cutthroat' | person |
| cruel, vicious, ruthless, cutthroat, cruelty, ruthlessness, harshness, abuse, slit throat | neck, side | bor: English: 'cutthroat' | |

| obliged, committed, obligation, commitment, oblige, commit | neck, side | ma: dragged by neck | |
|---|----------------|-----------------------------|----------------------|
| selfishness, egotism, selfish, egotistic, greed, greedy | neck | fop: drinking | desire |
| slave, slavery, enslave | neck, side | ma: dragged by neck | person |
| giraffe | neck, front | ap: giraffe neck | creature |
| hangover, hungover | neck, side | bor: English: 'hangover' | |
| risk, risky, hazardous, perilous, doubtful | neck | bp: neck | death |
| scarf, head scarf | neck, in front | iup: wearable | |
| hanging, hang | neck, side | ma: hanging | |
| kill, killer, killing, slay | neck, side | ma: cut-throat | butchering for death |
| sex, sexuality, lust, sexy, horny | neck, side | fop: drinking | desire |
| mumps | neck, side | eap: illness | |
| murder, murderer, murder, slay | neck, side | ma: cut-throat | butchering for death |
| neck, throat | neck | bp: neck | |

Table 40: Auslan Location: Shoulders

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--|-------------------|--------------------------|-----------------------|
| history, ancestors | shoulder, over | asp: central | timeline |
| history, olden, ancient, historical, formerly | shoulder, over | asp: central | timeline |
| burden | shoulder | fop: carrying | responsibility |
| callisthenics, gymnastics, exercises | shoulders | ma: shoulder touch | |
| government | shoulder | bor: ASL: BOSS | |
| interruption, disturbance, irritation, hassle, disruption, interrupt, disturb, irritate, hassle, disrupt | shoulder, below | ma: tapping on shoulder | |
| trouble-free, hassle-free | shoulder | fop: carrying | responsibility |
| necklace | chest to shoulder | iup: wearable | |
| not prior to, not before then | shoulder, above | asp: central | timeline |
| matron, nun | head, shoulder | iup: wearable | person |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|----------|--------------------------|-----------------------|
| acceptance, resignation, acceptability, accept, acceptable | chest | bp: chest | self |
| fear, fright, scared, frightened, afraid, scare, frighten | chest | eap: emotion | anxiety/fear |
| life, alive, living | chest | fop: blood flow | life |
| clothes, clothing, garments, apparel, wear, clothe, get dressed, wearing, dress, dress up | chest | iup: wearable | |
| are | chest | bp: chest | self |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--|-----------------------|-----------------------------|-----------------------|
| asthma, asthmatic, panting, pant | chest | eap: illness | |
| bath, bathtub, bathe | chest | eap: washing | |
| swimsuit, one-piece, bathing suit | stomach to chest | iup: wearable | |
| behaviour, behave | chest | bp: chest | self |
| bequest, inheritance, will, bequeath, inherit | chest | bp: chest | self |
| tunic, bib | chest | iup: wearable | |
| bikini* | chest, waist | iup: wearable | |
| blanket | chest | iup: wearable | |
| shirt, blouse, collar, T-shirt | chest | iup: wearable | |
| boast, vanity, brag, vain | chest | bp: chest | self |
| pride, boastfulness, proud, brag, boast | chest | bp: chest | self |
| body, trunk (body), physical | chest | bp: body | |
| boobs, tits | chest | bp: breasts | |
| breast, breasts, bosom, breastfeeding, breastfeed | chest, contra to ipsi | bp: breasts | |
| bra, brassiere | chest | iup: wearable | |
| bravery, courage, brave, courageous | chest | bor: French cœur 'heart' | |
| free, freedom, rest, break (pause), relax, retired, retiree, retirement, liberty, available | chest | bor: ASL: VACATION | |
| breathing, lungs, breathe, respiratory, respiration | chest | fop: breathing | |
| busty | chest | bp: breasts | |
| button up | chest, top to bottom | iup: wearable | |
| relief, calm, calmness, relieved | chest | eap: emotion | content |
| cardigan, vest, waistcoat | chest | iup: wearable | |
| hiker, camping, hiking, rucksack, back pack, camp | chest | iup: wearable | |
| why, because, since, as, cause, reason | chest, ipsi | ?? | |
| chest | chest | bp: chest | |
| chicken-pox* | chest | eap: illness | |
| close shave, close call, close | chest, ipsi | ?? | |
| clothes, clothing, garments, apparel, wear, clothe, get dressed, wearing, dress, dress up | chest | iup: wearable | |
| comfortable | chest | eap: emotion | content |
| compassion, mercy, compassionate, merciful | chest | eap: emotion | love |
| satisfaction, satisfy, satisfied, content | chest | eap: emotion | content |
| cough | chest | fop: cough | |
| roughness, crudeness, uncouthness, vulgarity, violence, rough, crude, uncouth, vulgar, violent | armpit | ?? | |
| breakfast* | mouth, armpit | ?? | |
| cuddle, hug, embrace | chest | eap: hug | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|------------------------|--------------------------|-----------------------|
| cure, recovery, cured, heal, healed | chest | bp: chest | health |
| deny, innocent | chest | bp: chest | self |
| not responsible, no responsibility, deny responsibility | chest | bp: chest | self |
| deodorant, underarm | armpit | iup: wearable | |
| patient, endure, put up with, calm, patience, endurance, calmness | chest | eap: emotion | content |
| enjoyment, enjoy, enjoyable | chest | eap: emotion | happy |
| fitness, fit (healthy) | chest | bp: chest | health |
| tired, tire, tiredness, exhausted, fatigue, exhaustion, weariness, weary, exhaust | chest | fop: breathing | |
| feel, sense, think, feeling, sensation, emotion | chest, stomach, side | eap: emotion | |
| impression, feeling, sensation, emotion, sense, think | chest | eap: emotion | |
| gentleman* | chest, chin | iup: wearable | |
| morning, Good morning | stomach, chest, side | ?? | |
| gorilla | chest | ma: beat chest | creature |
| round trip, return journey, day tripper, commuter, laps, return ticket, day student, commute, go-to-and-fro | chest | bp: chest | self |
| health, well-being, healthy, fit (healthy) | chest | bp: chest | health |
| health, well, healthy, How are you | chest | bp: chest | health |
| indigestion, heartburn | chest, middle | eap: illness | |
| hiccup, hiccough | chest, middle | fop: hiccup | |
| me, I | chest, | bp: chest | self |
| idleness, loafing, loafer, idle, loaf, free, available | chest | bor: ASL: VACATION | |
| excitement, interest, keenness, excited, interested, keen, exciting, interesting, excite | chest | eap: emotion | happy |
| fascination, fascinated, intrigued, fascinate, intrigue* | chest, stomach | bp: chest | self |
| invite into, admit, guest, usher, usherette | chest, in front | bp: chest | self |
| zipper, jacket, windcheater, track suit | chest | iup: wearable | |
| joy | chest, upper and lower | eap: emotion | happy |
| jumper, sweater, pullover | chest | iup: wearable | |
| maid, servant, kitchen-hand, kitchen, staff | chest, ipsi | ?? | |
| why-not, let's | chest | ?? | |
| life, live, alive, living | chest | fop: blood flow | life |
| like, enjoy, enjoyment | chest | bp: chest | self |
| fascination, fascinated, intrigued, fascinate, intrigue* | chest, upper and lower | bp: chest | self |
| life, alive, living | chest | fop: blood flow | life |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|----------------------|--------------------------|-----------------------|
| lounge chair, armchair | chest | bor: ASL: VACATION | |
| lounge, lounge room | chest | bor: ASL: VACATION | |
| soldier, army, military* | chest, stomach | ma: holding a rifle | person |
| myself, ourselves, independently | chest | bp: chest | self |
| naked, nude | chest to waist | iup: wearable | |
| necklace | chest to shoulder | iup: wearable | |
| tie, necktie | chest | iup: wearable | |
| need | chest to waist, side | ?? | |
| nervousness, anxiety, nervous, anxious, frustration, frustrated | chest | eap: emotion | anxiety/fear |
| nightdress, nightie, pyjamas* | face, chest to waist | iup: wearable | |
| no harm | chest | ?? | |
| none of your business* | mouth, chest | bp: chest | self |
| not responsible, no responsibility, deny responsibility | chest | bp: chest | self |
| oh | chest | eap: emotion | |
| fine, okay | chest | bor: ASL: FINE | |
| open-necked | chest | iup: wearable | |
| our, ours | chest | bp: chest | self |
| ourselves | chest | bp: chest | self |

Table 42: Auslan Location: Heart

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|----------|--------------------------|-----------------------|
| amateur | heart | bp: heart | love |
| army | heart | iup: wearable | |
| character, personality, emotion, personal, at heart, heart (at heart), personally | heart | bp: heart | personality |
| attitude | heart | bp: heart | personality |
| badge | heart | iup: wearable | |
| heartbeat, love, beat (heart), throb, fall in love | heart | bp: heart | love |
| brooch | heart | iup: wearable | |
| button | heart | iup: wearable | |
| heart, feelings, hearts, cardiac | heart | bp: heart | love |
| heart attack, cardiac arrest | heart | eap: illness | |
| promise, vow, commitment, oath, honesty, honest, honestly, truthfully | heart | ges: cross-heart | |
| council | heart | iup: wearable | person |
| courage, bravery, guts, hero, heroine, courageous, brave | heart | bp: heart | personality |
| guilt, remorse, guilty, culpable, sin, sinner | heart | bp: heart | emotion |
| detective | heart | iup: wearable | person |
| emotion, emotional | heart | bp: heart | emotion |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--|-----------------|--------------------------|-----------------------|
| faith, belief, believe* | forehead, heart | bp: heart | emotion |
| generous, kind | heart | bp: heart | love |
| kindness, good-heartedness, kind, good-hearted | heart | bp: heart | love |
| indulgence, soft-heartedness, kindness, indulge, spoil, soft-hearted, kind-hearted | heart | bp: heart | love |
| lover, love | heart | bp: heart | love |
| medal | heart | iup: wearable | |
| Messiah* | heart, waist | bor: ASL: MESSIAH | |
| prefect, name tag, label, stereotype | heart | iup: wearable | |
| offence, touchiness, sensitivity, offend, touchy, sensitive, hurt, offended | heart | bp: heart | emotion |

Table 43: Auslan Location: Arms

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|----------------------------|--------------------------|-----------------------|
| administration | upper arm | iup: wearable | |
| amputation, amputee, amputate | upper arm | eap: amputation | |
| antiseptic, dab | ndh to forearm | iup: antiseptic | |
| arm | forearm | bp: arm | |
| artillery | forearm | asp: surface | |
| bankruptcy, bankrupt, failure, fail, loss, lose | forearm to elbow, under | asp: length | |
| blood pressure | upper arm | iup: wearable | |
| blood sample | upper arm | eap: draw blood | |
| bone | forearm | bp: bone | |
| spider, insect, bug, beetle, crawl | ndh to forearm | asp: surface | |
| lump, bump | forearm | eap: illness | |
| cabbage, chop, mince, mincemeat, shred | ndh to forearm | asp: surface | |
| toad, cane toad | ndh to forearm | asp: surface | |
| worm, caterpillar, grub, crawl | ndh to forearm | asp: surface | |
| conceal, hide | ndh to forearm, under | asp: surface | cover |
| confidence, confident | upper arm to ndh | bp: arm | power |
| corporal | upper arm | iup: wearable | |
| sunrise, dawn, daybreak, rise | forearm | asp: surface | |
| muscle, strength, energy, might, power, muscular, muscle-bound, strong, powerful, empower | upper arm | bp: bicep | power |
| first aid | upper arm | iup: wearable | |
| goose pimples, goose bumps, goose flesh, thrill, frisson, hair- raising, thrilled, thrilling, spine- chilling, frightening | forearm | eap: goosebumps | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|-------------------------|--------------------------|-----------------------|
| green, grass | forearm | asp: surface | |
| grasshopper, frog | forearm | asp: surface | |
| harvest | forearm, above | asp: surface | |
| syringe, hypodermic needle, injection, jab, inoculation, vaccination, drug addict, heroin, inoculate, vaccinate, shoot up, inject, immunisation, immunise | upper arm | iup: syringe | |
| conceal, hide | forearm, under | asp: surface | cover |
| stash, hide away, conceal, secrete, cache, save, savings, treasure | forearm, under | asp: surface | cover |
| jungle | forearm | asp: surface | |
| left, left side, left arm, left hand | upper arm | bp: left arm | |
| rocket, lift off, launch, take off | forearm | asp: surface | |
| long time, long ago | forearm | asp: length | |
| long sleeve shirt, long sleeved | upper arm, forearm | iup: wearable | |
| mortification, humiliation, discouragement, mortified, mortify, humiliated, humiliate, discouraged, discourage | forearm | ?? | |
| nerve | forearm to upper arm | bp: nerve | |

Table 44: Auslan Location: Elbow

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--|--------------|--------------------------|-----------------------|
| elbow | elbow | bp: elbow | |
| felling, logging, fell, chop (tree), chop down, log | elbow, under | ma: chopping tree | |

| Table 45: Auslan Location: Wrist |
|----------------------------------|
|----------------------------------|

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|----------|--------------------------|-----------------------|
| bracelet, bangle | wrist | iup: wearable | |
| blockage, obstacle, trap, seizure, stoppage, prevention, block (stop), obstruct, trapped, stuck, prevent, bind | wrist | iup: wearable | |
| apprentice, apprenticeship, apprenticed, bonded | wrist | iup: wearable | |
| borrowing, lending, borrow, lend | wrist | iup: wearable | |
| cuff | wrist | iup: wearable | |
| jail, gaol, prison, prisoner, inmate, imprison, jailed, imprisoned | wrist | iup: wearable | |
| habit, addiction, habitual, addicted, hooked, habitually | wrist | iup: wearable | |
| left handed | wrist | bp: left hand | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--|----------|--------------------------|-----------------------|
| free, release, liberate, freedom, liberation | wrist | iup: wearable | |

Table 46: Auslan Location: Stomach

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---|----------------------|---------------------------|-----------------------|
| stomach, tummy, belly, abdomen | stomach | bp: stomach | |
| anger, annoyance, complaint, angry, cross, annoyed, complain | stomach | eap: emotion | anger |
| frustration, anxiety, frustrated, anxious | stomach | eap: emotion | anxiety |
| stomach, belly, gut, beer gut | stomach | bp: stomach | |
| bowel, defecate, poo | stomach | fop: defecation | |
| caesarean, hysterectomy | stomach | eap: surgery | |
| complaint, grievance, gripe, anger, whinge, complain, grumble, gripe, angry | stomach | eap: emotion | anger |
| pregnancy, pregnant, conceive | stomach | fop: pregnancy | |
| delicious, yummy, scrumptious | stomach | fop: eating | |
| farm, farmer | stomach | bp: stomach | person |
| morning, Good morning | stomach, chest, side | fop: eating | |
| irritated, frustrated, irritation, frustration | stomach, chest, side | eap: emotion | anger |
| jeans | stomach, waist | iup: wearable | |
| toilet, lavatory, loo, wee, wee-wee | stomach | fop: defecation | |
| live, reside | stomach | ?? | |
| medal, medallion, pendant | stomach | iup: wearable | |
| soldier, army, military* | chest, stomach | ma: holding a rifle | person |
| monkey | stomach | ma: scratching stomach | creature |
| nausea, queasiness, nauseous, queasy, uneasiness | stomach | eap: illness | |
| grudge, grievance, resentment, niggle, resent, niggled | stomach | eap: emotion | anger |
| not want, don't want | stomach | ?? | |
| swimsuit, one-piece, bathing suit | stomach to chest | iup: wearable | |
| vomit, chunder, vomiting, throw up* | stomach to chest | fop: vomit | |

Table 47: Auslan Location: Waist

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|----------------------------|-------------|---------------------------|-----------------------|
| afford, pay for, fare, pay | waist, ipsi | iup: wearable (pocket) | money |
| apron | waist | iup: wearable | |

| swimming costume, swimming briefs, bathers, briefs, bikini briefs, underpants, panties, knickers | waist | iup: wearable | |
|---|-------------------------|----------------------|--------|
| belt | waist | iup: wearable | |
| bikini* | chest, waist | iup: wearable | |
| birth, reproduction, breeding, breeder, born, reproduce, breed | waist | fop: birth | |
| briefs, pants, panties, knickers | waist | iup: wearable | |
| seat-belt (plane), buckle | waist | iup: wearable | |
| business, business | waist, ipsi | ?? | |
| corset | waist | iup: wearable | |
| hip | waist, ipsi | bp: hip | |
| jeans | stomach, waist | iup: wearable | |
| kilt | waist | iup: wearable | |
| Messiah* | heart, waist | bor: ASL: MESSIAH | |
| naked, nude | chest to waist | iup: wearable | |
| serviette, napkin | waist | iup: wearable | |
| nappy (diaper) | waist | iup: wearable | |
| sailor, navy | waist, back | iup: wearable | person |
| nightdress, nightie, pyjamas* | face, chest to waist | iup: wearable | |

Table 48: Auslan Location: Legs

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|------------|--------------------------|-----------------------|
| leg, thigh | leg, thigh | bp: leg | |

APPENDIX C

HKSL BROWSER DATA

For the HKSL data below, links are included on the English glosses to the video of each

sign in the <u>HKSL browser</u>.

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|----------------------|-----------------------|-------------------------------------|-----------------------|
| BEAR | top | ap: bear ears | creature |
| BLACK | top, side | qop: black, color | |
| BLACK PEPPER* | top, side | qop: black, color | |
| BUS STOP | side | ma: pulling cord to stop bus | |
| CARTOON | face, in front | fop: seeing | |
| CHEF | sides | iup: wearable | person |
| CLASSMATE | face, in front | fop: seeing (reading) | |
| CLASSROOM | face, in front | fop: seeing (reading) | |
| CLOSE WINDOWS | face, in front | fop: seeing | |
| CLOUDY | face, in front | fop: seeing | |
| CURLY-HAIRED | side | bp: hair | |
| DARK | face, in front | fop: seeing | |
| DINNER* | face, mouth, in front | fop: seeing | |
| FENCING | face | iup: wearable | activity |
| FIREMAN | head, top | iup: wearable | person |
| FOG | face, in front | fop: seeing | |
| GOODNIGHT | face, in front | fop: seeing (sleep) | |
| HAIR | side, hair | bp: hair | |
| HEAD | side | bp: head | |
| HEAT STROKE | face, in front | fop: cognition (dizzy) | |
| HUSBAND | side | iup: wearable, earring | female |
| IMAGINE | side | fop: cognition | |
| INVENT | top, above | fop: cognition | |
| KNIT HAT | top, side | iup: wearable | |
| LATE AT NIGHT | face, in front | fop: seeing | |
| LION | side | ap: mane | creature |
| LONG-HAIRED | side | bp: hair | |
| METHOD | top, above | fop: cognition | |
| MOLE ON THE CHEEK* | head top side, cheek | qop: black | |
| MONKEY | head, stomach, side | ma: monkey scratching head and side | creature |
| NUDE PICTURES | face, in front | iup: camera | |
| PAJAMAS* | side, lean | ma: sleep | |
| RABBIT | head, top | ap: rabbit ears | creature |
| RED CARROT* | chin; head, top | ap: rabbit ears | creature |

| Table 49: HKSL Location: Hea |
|------------------------------|
|------------------------------|

| SHAMPOO (ONE'S) HAIR | head, sides | bp: hair | |
|-------------------------|------------------|------------------------|------------|
| SHORT-HAIRED | head, top | bp: hair | |
| SON | head, side | iup: wearable, earring | female |
| SOY SAUCE | top, side | qop: black | |
| <u>SPERM</u> | head, side | iup: wearable, earring | female |
| <u>SUGGEST</u> | head, top | fop: cognition | |
| TELEVISION | face, in front | fop: seeing | |
| UGLY-LOOKING | face, in front | bp: face | appearance |
| YOUNGER BROTHER | chin; head, side | iup: wearable, earring | female |

Table 50: HKSL Location: Forehead

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------------------|-------------------------------------|----------------------------|--------------------------|
| ADAPT | temple (var 3 is temple as well) | fop: cognition | |
| ADDICTED | temple | fop: cognition | |
| ASSAULT ON POLICE OFFICERS | forehead | gesture: salute | person |
| BRAIN | temple | fop: cognition | |
| CATTLE | temple | ap: horns | creature |
| CELEBRITY* | forehead, chin | bp: face | appearance for celebrity |
| CHIEF EXECUTIVE | forehead | iup: wearable | person |
| COMMEMORATE | forehead | fop: cognition | |
| COMPUTER | temple | fop: cognition | |
| CONSERVATIVE | forehead | fop: cognition | (close-minded) |
| CONSIDER | temple | fop: cognition | |
| DEER | temple | ap: antlers | |
| DIFFICULT | temple | fop: cognition | |
| DON'T UNDERSTAND | temple | fop: cognition | |
| DOZE OFF | temple | fop: cognition | |
| EMPEROR/RULER | forehead | iup: wearable | person |
| EXAGGERATE | temple | fop: cognition | |
| EXECUTIVE MEETING | forehead | iup: wearable | person |
| FAMOUS | temple | bp: face | appearance for celebrity |
| FATHER'S DAY* | mouth, forehead | ?? | |
| FEVER | forehead | eap: fever | |
| FORGET | forehead | fop: cognition | |
| GOVERNMENT | forehead | iup: wearable | person |
| HAT/CAP | forehead, in front | iup: wearable | |
| HINDUISM | forehead, between eyes | iup: wearable for religion | |
| HOSPITAL | forehead | iup: wearable | person |
| HOT | forehead | fop: sweat | |
| INPATIENT CARE | forehead | iup: wearable | person |
| INTEND | temple | fop: cognition | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--------------------------------|--------------------------|--------------------------|-----------------------|
| JEANS* | temple, waist | ap: horns | creature |
| KNOW | temple | fop: cognition | |
| KNOW WHAT TO DO | temple | fop: cognition | |
| KNOWN TO EVERYONE | temple | fop: cognition | |
| <u>LEARN</u> | temple | fop: cognition | |
| LIBERAL STUDIES | temple | fop: cognition | |
| MATURE | forehead | fop: cognition | |
| MEMORY | forehead | fop: cognition | |
| MEMORY CARD | forehead | fop: cognition | |
| MILK* | temple, mouth | ap: horns | creature |
| MILK POWDER | temple, mouth | ap: horns | creature |
| MILK TEA | temple, mouth | ap: horns | creature |
| NARROW-MINDED | temple, in front | fop: cognition | |
| NEVER FORGET | forehead | fop: cognition | |
| NEXT YEAR | temple | asp: central | timeline |
| NOON | forehead | asp: clockface | time of day |
| OPEN-MINDED | forehead | fop: cognition | |
| OPPOSITION | forehead | iup: wearable | person |
| POLICE STATION | forehead | gesture: salute | person |
| PONDER | forehead | fop: cognition | |
| PRO-ESTABLISHMENT | forehead | iup: wearable | person |
| PUT ON RECORD | forehead | fop: cognition | |
| QUEEN* | ear, forehead | iup: wearable | person |
| REALIZE (ONE'S FAULT) | temple | fop: cognition | |
| RECALL IN A SUDDEN | temple | fop: cognition | |
| RECKLESS DRIVING | temple | ap: horns | creature |
| RED WINE | chin; forehead, in front | fop: cognition | |
| REGRET | forehead | fop: cognition | |
| <u>REMEMBER</u> | forehead | fop: cognition | |
| <u>RESEARCH</u> | temple | fop: cognition | |
| SHORT-HAIRED ABOVE THE EARS | temple | bp: hair | |
| SILLY | forehead | fop: cognition | |
| SMART | temple | fop: cognition | |
| <u>STUDY</u> | forehead | fop: cognition | |
| <u>SULTRY</u> | forehead | fop: sweat | |
| SUMMER | forehead | fop: sweat | |
| THINK/WANT | temple | fop: cognition | |
| TOMORROW | temple | asp: central | timeline |
| UNDERSTAND/KNOW | forehead, top | fop: cognition | |
| UNIQUE (IDEA) | temple | fop: cognition | |
| UNLUCKY/UNFORTUNATE | forehead | asp: above | God |
| HEADACHE | temple | eap: headache | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--|---------------|--------------------------|-----------------------|
| <u>BLIND</u> | eye, below | fop: seeing | |
| BROWN | eye. below | qop: brown | |
| <u>CAMCORDER</u> | eye, in front | iup: camera | |
| <u>CAMERA</u> | eye, in front | iup: camera | |
| COFFEE | eye, side | fop: eye opening | awake |
| <u>EYE</u> | eye, below | bp: eye | |
| HOUSEFLY | eye | ap: fly eye | creature |
| INCREASE (ONE'S) KNOWLEDGE | еуе | fop: seeing | learning |
| LOOK OUT OF THE CORNER OF (ONE'S) EYES | eye,side | fop: seeing | |
| MIRACLE | eye, side | fop: eye opening | surprise |
| PISTOL (SHOOTING) | eye, in front | iup: pistol | |
| <u>SEE (SOMEONE)</u> THROUGH | eye, below | fop: seeing | |
| SHORT-SIGHTED | eye, below | fop: seeing | |
| SMALL-EYES | eye, in front | bp: eye | |
| SPECIAL | eye, ipsi | fop: eye opening | surprise |
| SUDDENLY | eye, below | fop: seeing | surprise |
| SUNGLASSES | eye, in front | iup: wearable | |
| VERTIGO | eye, below | fop: seeing | |
| VIDEO TAKING | eye, in front | iup: camera | |
| QUICK | eye | fop: seeing | surprise |

Table 51: HKSL Location: Eyes

Table 52: HKSL Location: Ears

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------------|---------------|------------------------------|-----------------------|
| CANNOT HEAR | ear, side | fop: hearing | |
| DAUGHTER | ear | iup: wearable, earring | female |
| EAR | ear | bp: ear | |
| EAR CHECKUP | ear | iup: wearable, headphones | |
| HARD-OF-HEARING | chin, ear | fop: hearing | |
| LOUD | ear | fop: hearing | |
| MOBILE PHONE | ear | iup: phone | |
| NOISY | ear | fop: hearing | |
| NUN | ear | iup: wearable, earring | female |
| QUEEN* | ear; forehead | iup: wearable, earring | female |
| REFUSE TO LISTEN | ear | fop: hearing | |
| WIFE | ear | iup: wearable, earring | female |
| WOMAN | ear | iup: wearable, earring | female |
| YOUNGER SISTER | chin; ear | iup: wearable, earring | female |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-----------------------|-------------|--------------------------|-----------------------|
| CONTEMPT | nose | lsa: neg | |
| CURRY | nose | fop: smell | |
| DISCRIMINATION | nose | lsa: neg | |
| EAGLE | nose | ap: beak | |
| ELEPHANT | nose | ap: elephant trunk | |
| FRAGRANT | nose | fop: smell | |
| GASOLINE | nose | fop: smell | |
| HUMOROUS | nose | lsa: neg | |
| INHALE | nose | fop: inhale | |
| MUSTARD | nose | fop: smell | |
| NEW | nose, side | ?? | |
| NEW TERRITORIES | nose, side | ?? | |
| NOSE | nose | bp: nose | |
| <u>PEPPER</u> | nose | fop: sneezing | |
| PLASTIC | nose | ?? | |
| PLASTIC PIPE | nose | ?? | |
| SACRIFICE (ONESELF) | nose; chest | lsa: neg | |
| SESAME OIL* | cheek, nose | asp: seeds, qop: oily | |
| <u>UPSTREAM</u> | nose, under | fop: smell | |
| OIL PAINTING | nose | qop: oily | |
| PAINT | nose | qop: oily | |

Table 53: HKSL Location: Nose

Table 54: HKSL Location: Cheek

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------------|----------------------|--------------------------|-----------------------|
| AGED | cheek | bp: drooping jowl | old |
| APPLE | cheek | fop: eating | |
| BLUE | cheek | qop: blue | |
| CALL THE POLICE | cheek | iup: phone | |
| CAT | cheek | ap: whiskers | creature |
| CREAM | cheek | fop: eating | |
| DIAL | cheek | iup: phone | |
| DISCRETION | cheek | bp: face | reputation |
| FACE | cheek | bp: face | |
| FRUIT* | chin, cheek | fop: eating | |
| GRANDFATHER* | cheek, mouth | bp: drooping jowl | old |
| GRANDMOTHER* | cheek, mouth | bp: drooping jowl | old |
| LIFE | cheek | ?? | |
| LUCKILY/A CLOSE CALL | cheek | gesture | |
| MOLE ON THE CHEEK* | head top side, cheek | bp: mole | |
| OLD | cheek | bp: drooping jowl | |
| ONE WEEK | cheek | asp: central | timeline |

| PHONE | cheek | iup: phone | |
|--|----------------------|-------------------------------|---------------------------|
| PRESBYOPIA | cheek | bp: drooping jowl | old |
| RICE | cheek | fop: eating | |
| RICE VERMICELLI | cheek, mouth | fop: eating | |
| SCAR (ON FACE) | head top side, cheek | bp: scar | |
| <u>SERIOUS</u> | cheek | fop: facial expression | |
| SESAME OIL* | cheek, nose | bp: pores | look alike: pores = seeds |
| SHOW OFF | cheek, nose | bp: face (rel: discretion) | reputation |
| SMARTPHONE | cheek | iup: phone | |
| SOUR | cheek | fop: puckering cheek | |
| STRICT | cheek | fop: puckering cheek | character |
| SUGAR | cheek | fop: eating | |
| TELEPHONE (YOU)/CALL (YOU) AGREEMENT | cheek | iup: phone | |
| VINEGAR | cheek | fop: puckering cheek | |
| <u>WEEK</u> | cheek | asp: central | timeline |

Table 55: HKSL Location: Mouth

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--|-----------------------|--------------------------------|-----------------------|
| <u>A TOOTH FOR A</u> TOOTH/TAKE REVENGE | mouth | bp: tooth | idiom |
| ACCOUNT | mouth | fop: speaking | |
| ASK | mouth | fop: speaking | |
| BAD IN TASTE | mouth | fop: tasting | |
| BALLOON | mouth | iup: balloon | |
| BIRD | mouth | ap: beak | part for creature |
| BISCUIT | mouth | fop: eating | |
| BITE | mouth | fop: biting | |
| BLACK PEPPER* | mouth | fop: eating | |
| BLEED | mouth, below lips | qop: red | |
| BLOOD | mouth | qop: red | |
| BREAD | mouth | fop: eating | |
| BRUSH (ONE'S) TEETH | mouth, teeth | bp: tooth | |
| CAKE | mouth | fop: eating | |
| CHICKEN FILLET | mouth | ap: beak | creature |
| CHILLI SAUCE | mouth, in front | fop: eating | |
| CIGAR | mouth | fop: smoking | |
| COKE | mouth | fop: drinking (or lipreading?) | |
| DANGEROUS DRUGS | mouth, in front | fop: eating | |
| DINNER* | face, mouth, in front | fop: eating | |
| DRAGON | mouth, moustache | ap: moustache | creature |
| DUCK | mouth | ap: bill | creature |
| EAT | mouth | fop: eating | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--------------------------------|---|-------------------------------------|-----------------------|
| EAT (RICE) | mouth | fop: eating | |
| EXEMPTION | mouth, side | fop: speaking | |
| FAMILY | mouth | lsa: family | |
| <u>FATHER</u> | mouth | lsa: family | father |
| FATHER'S DAY* | mouth, forehead | lsa: family | father |
| FOOD | mouth | fop: eating | |
| GRANDFATHER* | cheek, mouth | lsa: family | |
| GRANDMOTHER* | cheek, mouth | lsa: family | |
| HAMBURGER | mouth | fop: eating | |
| HOBBY | mouth | borrow: ASL: KISS- FIST | |
| ICE CREAM CONE | mouth | fop: eating | |
| ICE LOLLY | mouth | fop: eating | |
| INTEREST | mouth | ?? | ?? |
| IT'S NOTHING | mouth | gesture: blowing | |
| JUICE | mouth | fop: drinking | |
| JUSTIFIED | mouth, ipsi | fop: speaking | (speech good) |
| KEEP AS A SECRET | mouth | fop: speaking | |
| KNOW NOTHING | mouth | ?? | |
| LABOR HOLIDAY | mouth | ?? | |
| LANGUAGE | mouth | fop: speaking | |
| LAUGH | mouth | fop: laugh | |
| LAUGH LOUDLY | mouth, below | fop: laugh | |
| LEAK (INFORMATION)/DISCLOSE | mouth | fop: speaking | |
| LET GO | mouth, ipsi | fop: speaking | |
| LIGHTER | mouth (double location mouth and NDH) | iup: cigarette, lighter | |
| LIP READ | mouth | fop: speaking | |
| LIPSTICK | mouth | iup: lipstick | |
| LOVE (SOMETHING) ARDENTLY | mouth | borrow: ASL: KISS- FIST | |
| MAIL BOX | mouth | ma: wetting stamp/seal | |
| MALL | mouth, both sides | borrow from written Chinese '商店' | |
| MATERNAL GRANDFATHER | mouth, both sides | bp: moustache | |
| MEDICINE | mouth | fop: eating | |
| MILK* | mouth | fop: drinking | |
| MINIBUS | mouth | fop: speaking | |
| MOONCAKE | mouth | fop: eating | |
| MOTHER | mouth | lsa: family | |
| MOTHER'S DAY | mouth | lsa: family | |
| MOUTH | mouth | bp: mouth | |
| MSG | mouth | fop: eating | |
| NOODLES | mouth | fop: eating | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------------|-----------------|------------------------------|-----------------------|
| <u>PAPAYA</u> | mouth, in front | fop: eating | |
| PARENTS | mouth | lsa: family | |
| PASSWORD | mouth, ipsi | fop: speaking | |
| NOSY | mouth, sides | bp: moustache | |
| PEPSI | mouth | fop: drinking | |
| <u>PIG</u> | mouth | ap: snout | creature |
| PIGEON | mouth, ipsi | ap: beak | creature |
| PIPE | mouth, side | iup: pipe | |
| PLUM | mouth, ipsi | fop: eating | |
| PORK | mouth | ap: snout | creature |
| RABBIT-TOOTHED | mouth | bp: tooth | |
| <u>REFEREE</u> | mouth | iup: whistle | person |
| <u>RELATIVES</u> | mouth, ipsi | lsa: family | |
| RICE VERMICELLI | cheek, mouth | fop: eating | |
| SALT | mouth | fop: eating | |
| SANDWICH | mouth | fop: eating | |
| SAY | mouth, ipsi | fop: speaking | |
| SHOW RESPECT TO YOU | mouth, ipsi | fop: speaking | |
| SNAKE | mouth | ap: tongue | |
| SOFT DRINK | mouth | fop: drinking, iup: straw | creature |
| SOY MILK | mouth | fop: drinking | |
| SPEAK | mouth | fop: speaking | |
| SWEET | mouth | fop: eating | |
| TALK | mouth | fop: speaking | |
| TASTE | mouth | fop: tasting | |
| TELL | mouth | fop: speaking | |
| TONGUE | mouth, tongue | bp: tongue | |
| TOOTH | mouth, teeth | bp: tooth | |
| TOOTHPICK | mouth, teeth | iup: toothpick | |
| TURKEY (BIRD) | mouth | ap: beak | creature |
| UNJUSTIFIED | mouth, ipsi | fop: speaking | |
| VOMIT | throat to mouth | fop: vomiting | |
| YAWN | mouth, ipsi | fop: yawning | |

Table 56: HKSL Location: Chin

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|------------------------|----------------|--------------------------|-----------------------|
| ACCUSE | chin | fop: speaking | |
| ADVERTISEMENT | chin, in front | fop: speaking | |
| AFTERNOON | chin | ap: clockface? | time of day |
| AFTERNOON TEA | chin | ap: clockface? | time of day |
| APPEAL | chin | fop: speaking | |
| APPLY FOR LEAVE | chin | fop: speaking | |
| BE ATTRACTED TO | chin, below | iup: hook in mouth | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------------|--------------------------|--------------------------------------|--------------------------|
| BEARD | chin | bp: beard | |
| CANCER | chin | bor: Chinese character: mouth '癌' | |
| CELEBRITY* | forehead, chin | bp: face | appearance for celebrity |
| COMPLAIN | chin, under | fop: speaking | |
| CORN | chin | fop: eating | |
| EAST | chin | ?? | |
| FOREVER | chin | asp: central | timeline |
| FORGE | chin | ?? | |
| FRUIT* | chin, cheek | fop: eating | |
| GOOD AFTERNOON | chin | asp: clockface | time of day |
| GOOD MORNING | chin | asp: clockface | time of day |
| <u>GUILTY*</u> | chest, chin | ?? | |
| HARD-OF-HEARING | chin, ear | fop: speaking | |
| HAVE | chin | ?? | |
| HAVE TRIED | chin | ?? | |
| INTERVIEW | chin, under | ?? | |
| LIKE | chin | ??, fop: eating? | |
| MORNING | chin | asp: clockface | time of day |
| <u>MUTTON</u> | chin | ap: sheep beard | creature |
| NO WAY OUT | chin, sides | ?? | |
| ONE DOLLAR | chin, under (neck?) | ?? | |
| PATERNAL GRANDFATHER | chin | bp: beard | |
| PENCIL | chin | ?? | |
| <u>PINK</u> | chin | bor: ASL: RED | |
| PLAINTIFF | chin, below | fop: speaking | |
| POLITE | chin | fop: speaking | |
| PRIMARY ONE | chin | ?? | |
| PURPLE | chin | bor: ASL: RED | |
| RED | chin | bor: ASL: RED | |
| RED CARROT | chin, head top | bor: ASL: RED | |
| RED PACKET | chin | bor: ASL: RED | |
| RED WINE | chin; forehead, in front | bor: ASL: RED | |
| REPORTER | chin, under | iup: microphone | |
| <u>REVEAL</u> | chin | ?? | |
| SHAVE (BEARD) | chin | eap: shaving | |
| <u>SHEEP</u> | chin, below | ap: sheep beard | creature |
| SING | chin, under | iup: microphone | |
| <u>SPOON</u> | chin, below | iup: spoon | |
| SPREAD RUMORS | chin, below | fop: speaking | |
| <u>SUE</u> | chin, below | fop: speaking | |
| THIN (PERSON) | chin | qop: thin | |
| TOMATO | chin; forehead, in front | bor: ASL: RED | |
| UNREASONABLE | chin, below | fop: speaking | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-----------------|------------------|---------------------------|-----------------------|
| WATCH | chin, under | ma: resting chin on hands | |
| WOOL | chin, below | ap: sheep beard | creature |
| YOUNG | chin | ?? rub chin? | |
| YOUNGER BROTHER | chin; head, ipsi | lsa: family | |
| YOUNGER SISTER | chin; ear | lsa: family | |

Table 57: HKSL Location: Neck

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--------------------|---------------|--------------------------|-----------------------|
| ASSAULT INDECENTLY | neck | eap: touching | sexual harrasment |
| COUGH | neck, chest? | fop: cough | |
| CUT (ONE'S) NECK | neck | eap: cut neck | death |
| DRY | neck | fop: thirst | |
| <u>GIRAFFE</u> | neck | ap: giraffe neck | |
| SCARF | neck | iup: wearable | |
| SEXUAL HARASSMENT | neck | eap: touching | sexual harrasment |
| SUICIDE | neck | eap: cut neck | death |
| <u>THROAT</u> | neck | bp: throat | |
| VOMIT | neck to mouth | fop: vomiting | |

Table 58: HKSL Location: Shoulders

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------------------|-----------------|--------------------------|---|
| AGO/BEFORE/IN THE PAST | shoulder, above | asp: central | timeline |
| ANCIENT TIME | shoulder, above | asp: central | timeline |
| APPLY FOR GUARANTEE | shoulder | bp: shoulder | responsibility |
| ASSOCIATION | shoulder, below | iup: wearable | rel: MEMBER |
| BE RESPONSIBLE FOR | shoulder, below | bp: shoulder | responsibility |
| BEHIND | shoulder, above | asp: central | behind |
| COMMITTEES | shoulder, below | iup: wearable | rel: MEMBER |
| DEMOCRATIC PARTY | shoulder, below | iup: wearable | rel: MEMBER |
| DRIVING LICENSE | shoulder, below | iup: wearable | |
| EVERY SATURDAY | shoulder, below | asp: central | timeline |
| EVERY SUNDAY | shoulder, below | asp: central | timeline |
| GUARANTEE | shoulder | bp: shoulder | responsibility |
| GUARANTOR | shoulder | bp: shoulder | responsibility |
| HANDBAG | shoulder | iup: wearable | |
| JANITOR | shoulder, below | bp: shoulder | responsibility for low class profession |
| JUDO | shoulder | ma: shoulder-throw | |
| <u>MEMBER</u> | shoulder, below | iup: wearable | profession |
| OUT OF DATE | shoulder, above | asp: central | timeline |

| QUILT | shoulder, below | iup: wearable | |
|------------------|-------------------|---------------|---|
| RECENTLY | shoulder, touch | asp: central | timeline |
| <u>SHIRT</u> | shoulder to chest | iup: wearable | |
| <u>YESTERDAY</u> | shoulder, above | asp: central | timeline |
| ZIP-UP JACKET | shoulder; chest | iup: wearable | |
| MAID | shoulder | bp: shoulder | responsibility for low class profession |
| LAZY | shoulder | bp: shoulder | responsibility |

Table 59: HKSL Location: Chest

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------------|----------------------|-------------------------------------|-----------------------|
| BODY | body, whole torso | bp: chest and stomach | |
| BOSS | chest | ?? | |
| CALM | chest | eap: emotion | relief |
| CENTER (building) | chest | bor: chinese character for heart | |
| COAT | chest | iup: wearable | |
| CONFIDENCE | chest | bor: chinese character for heart | |
| COVER WITH A BLANKET | chest | iup: wearable | |
| DOCTOR | chest | iup: stethoscope | profession |
| FORENSIC OFFICER* | forearm, chest | iup: stethoscope | profession |
| GUILTY* | chest, chin | bp: chest | self |
| HAPPY | chest | eap: emotion | happy |
| Ī | chest | bp: chest | self |
| IDENTITY | chest, upper, lower | bp: chest | self |
| IMPATIENT | chest | eap: emotion | anxiety |
| JOKE | chest | eap: emotion | happy |
| KIND | chest | bp: heart | self for character |
| LUNG | chest | bp: lung | |
| MEND (ONE'S) WAY | chest | bp: chest | self |
| NAME | chest | iup: wearable | |
| NERVOUS | chest | eap: emotion | anxiety |
| PAJAMAS* | chest, ipsi | iup: wearable | |
| PARATROOPER | chest, stomach, ipsi | iup: rifle | profession |
| PLAYGROUND | chest | eap: emotion | happy |
| PREPARE | chest | ?? | self? |
| PULMONARY DISEASE* | chest, wrist | eap: disease | |
| PUT ON CLOTHES | chest, wrist | iup: wearable | |
| RAINCOAT | chest, ipsi | iup: wearable | |
| REQUEST | chest | bp: chest | self |
| REQUIRE REPLY | chest | bp: chest | self |
| REST | chest, upper arm | ma: folding arms | rest |
| SACRIFICE (ONESELF) | nose; chest | bp: chest | self |
| SAME | chest | bp: chest | self |

| SCARED | chest | eap: emotion | fear |
|----------------|-------------------|---------------|----------|
| SEEK HELP | chest | bp: chest | self |
| <u>SHIRT</u> | shoulder to chest | iup: wearable | |
| SOAP | chest | iup: soap | |
| <u>SUIT</u> | chest | iup: wearable | |
| <u>SWEATER</u> | chest, ipsi | iup: wearable | |
| <u>T-SHIRT</u> | chest, upper arm | iup: wearable | |
| TANK TOP | chest | iup: wearable | |
| TIE | chest | iup: wearable | |
| <u>URGENT</u> | chest | eap: emotion | anxiety |
| WARDROBE | chest, ipsi | iup: wearable | |
| <u>WE</u> | chest | bp: chest | self |
| <u>X-RAY</u> | chest | iup: x-ray | |
| ZEBRA | chest | ap: stripes | creature |
| ZIP-UP JACKET | shoulder; chest | iup: wearable | |

Table 60: HKSL Location: Heart

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|----------|--------------------------|-----------------------|
| APOBIOSIS | heart | bp: heart | |
| JEALOUS | heart | bp: heart | self for character |
| PATIENCE | heart | bp: heart | self for character |
| SELF | heart | bp: heart | self |
| SELF-RELIANCE | heart | bp: heart | self |
| SELF-REPLY | heart | bp: heart | self |

Table 61: HKSL Location: Arms

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|--------------------------|--------------------------|--------------------------|-----------------------|
| ALL FAIL | forearm, above | asp: length | measure |
| BRIBE | forearm, below | asp: surface | cover |
| CHICKEN POX | forearm | eap: chicken pox | |
| <u>CUTE</u> | upper arm | ma: embrace | |
| DEFENSE COUNSEL | forearm | iup: wearable | person |
| <u>ESCAPE</u> | forearm, under | asp: surface | cover |
| FORENSIC OFFICER* | forearm, chest | iup: wearable | person |
| GREY | upper arm | ?? | |
| IMPROVE GRADUALLY | forearm to upper arm | asp: length | measure |
| JUDGE | forearm | iup: wearable | person |
| LIBRARY | forearm, side | asp: surface | |
| <u>MURDER</u> | forearm, side | asp: length | measure |
| OFFICIAL SOLICITOR | forearm | iup: wearable | person |
| ONE SECOND | forearm, (ends at wrist) | watch | time |
| PROSECUTION | forearm, (ends at wrist) | iup: wearable | person |
| REMUNERATION | forearm | bp: bicep | work |
| ROOM | forearm, (ends at wrist) | asp: surface | |
| SHORT SLEEVE | forearm | iup: wearable | |

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|----------------|------------------|--------------------------|-----------------------|
| <u>SUNRISE</u> | forearm, side | asp: surface | |
| T-SHIRT | chest, upper arm | iup: wearable | |
| <u>THEFT</u> | forearm, below | asp: surface | cover |
| TIRED | upper arm | bp: upper arm | power |
| TIRING | upper arm | bp: upper arm | power |
| TRAFFIC LIGHT | forearm | asp: surface | |
| WARM | upper arm | ma: warming arms | |
| ZEBRA CROSSING | forearm | asp: surface | |

Table 62: HKSL Location: Elbow

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------------------|----------|--------------------------|-----------------------|
| (No signs found at the elbow) | | | |

Table 63: HKSL Location: Wrist

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------|---------------------|--------------------------|-----------------------|
| <u>CLOCK</u> | wrist, back | iup: watch | time |
| CUT/SCRATCH | wrist, front | eap: cut | |
| EVERY HOUR | wrist, back | iup: watch | time |
| EVERY MINUTE | wrist, back | iup: watch | time |
| ILLNESS/SICK | wrist, front | ma: taking pulse | |
| LONG-SLEEVED | wrist, back | iup: wearable | |
| ONE HOUR | wrist, back | iup: watch | time |
| ONE MINUTE | wrist, back | iup: watch | time |
| PULMONARY DISEASE | chest, wrist, front | ma: taking pulse | |
| PUT INTO JAIL | wrist, front | iup: cuffs | |
| <u>SECOND</u> | wrist, back | iup: watch | time |
| WATCHES | wrist, back | iup: watch | |

Table 64: HKSL Location: Stomach

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|------------------|---------------------|--------------------------|-----------------------|
| BELT | stomach | iup: wearable | |
| FAT | stomach, side | bp: fat | |
| OPERATION | stomach | eap: surgery | |
| PREGNANT | stomach | eap: pregnant | |
| MONKEY | head, stomach, side | ma: monkey head, side | creature |
| STARVE | stomach | fop: eating | |
| STOMACH | stomach | bp: stomach | |
| <u>SUSPECT</u> | stomach | bp: stomach | intuition |

Table 65: HKSL Location: Waist

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|-------------|--------------------------|-----------------------|
| DRESS | waist, side | iup: wearable | |

Table 66: HKSL Location: Legs

| English Gloss | Location | Category of Iconicity | Metonym / Metaphor |
|---------------|--------------------|--------------------------|-----------------------|
| HAWKER | leg, front | iup: cart | |
| JEANS* | temple; leg, front | iup: wearable | |
| PUSH A CART | leg, front | iup: cart | |
| SHORTS | leg, front | iup: wearable | |
| TROUSERS | temple; leg, front | iup: wearable | |

APPENDIX D KSL DICTIONARY DATA

The data in these tables is taken from <u>sldict.korean.go.kr</u>. The sign glosses are in Korean, followed by an English translation. No English gloss of the signs are included in the dictionary so I translated the Korean through either translate.google.com or papago.naver.com. Generally, I left the English translation unedited. Many Korean words have homonyms, if one homonym fit the sign perfectly while the others made no sense iconically, I would use the translation that made sense and assume that it was the meaning of the sign. That being said, there are still plenty of translations that are doubtful. I don't have the expertise to give proper translations. The Korean word is the true gloss, the English translation is simply meant to be a helpful tool. Sometimes in the Korean gloss column a Chinese character is given in brackets [], this is information that was included by the makers of the dictionary and is meant to disambiguate the meaning of the Korean word.¹⁰⁰

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|----------------------|--|---------------------|--------------------------|-----------------------|
| 젊다,청춘 | youthful, youth | face | qop: smooth | |
| 젊은이 | young people | face | qop: smooth | |
| 청소년 | teenager | face | qop: smooth | |
| 검은색 | black color* | head, side, chin | qop: black | |
| 박 | staying the night, foil | head, side, chin | ma: sleep | |
| 검정,검다 | black, black | head, side, chin | qop: black | |
| 덥다,더위 | hot, hot | head, side | fop: sweating | |
| 못생기다,못나다,추 하다,밉다 | ugly, ugly, ugly, hate | face | bp: face | appearance |
| 갑자기,냅다,별안간, 갑작스럽다 | suddenly, let it go, suddenly, suddenly | face | fop: seeing | |
| 개성 | individuality | face, in | ?? | self |

| Table 67: | KSL | Location: | Head |
|-----------|-----|-----------|------|
|-----------|-----|-----------|------|

¹⁰⁰ To look up the video for the signs, copy/paste the Korean gloss into the search bar at <u>sldict.korean.go.kr</u>.

| | | front | | |
|-----------------------------------|--|-------------------|------------------------|-------------------------|
| 인상,용모,표정 | impression, appearance, expression | face | bp: face | |
| 무관심,내외,외면 | Indifference, inside and outside, outside | face | fop: seeing | |
| 얼굴,낯,안면 | face, face, face | face | bp: face | |
| 우울,울상,시무룩하 다 | melancholy, depressed, gloomy | face | fop: facial expression | emotion: sadness |
| 낮잠 | nap | head, side | ma: sleep | |
| 취하다 | drunk | face, in front | fop: seeing | |
| 면접 | interview | face | bp: face | |
| 주인공 | hero, main character | face, in front | bp: face | movie poster for person |
| 파렴치 | unscrupulous | face | fop: facial expression | brazen |
| 청주 | rice wine | face | ?? | |
| 낮,대낮, 백주,밝다, 새다,트다, 환하다,훤하다 | Daytime, broad daylight, white wine, bright, leaking, light, bright | face, in front | fop: seeing | |
| 자막 | subtitles | face, in front | fop: seeing | |
| 땀 | sweat | head, side | fop: sweating | |
| 사격 | shooting | face, in front | iup: gun sight | |
| 애매하다, | Ambiguous, vague, vague, vague, vague, vague, heal, cloudy, faint, ambiguous, uncertain, vague | face, in front | fop: seeing | |
| 방심 | excenter, absence, vacancy | face, in front | fop: seeing | |
| 위선자 | dissembler, hypocrite | face | iup: mask | |
| 석방 | release (from prison) | face, in front | asp: behind bars | |
| 익히다 | to learn | face, in front | iup: book | |
| 교도소,감옥,형무소 | prison, jail, prison | face, in front | asp: behind bars | |
| 극장 | theater | face, in front | fop: seeing | |
| 망신 | discredit | face | bp: face | reputation |
| 가면,탈 | mask, mask | face | iup: mask | |
| 동영상,화상,영화 | video, image, movie | face, in front | fop: seeing | |
| 죄수 | prisoner | face, in front | asp: behind bars | person |
| 철면피 | wretch, brazen face | face, in front | fop: facial expression | brazen |
| 황홀,휘황하다, 휘황찬란하다 | ecstacy, trance, brilliant, brilliant | face, in front | fop: seeing | |
| 취객 | drunk | face, in | fop: seeing | |

| | | front | | |
|------------------------|----------------------|----------------------------|-----------------------|------------|
| 아름답다,미 | beautiful* | cheek, face | bp: face | appearance |
| 공부,학업 | study, academic | head, sides | fop: seeing | |
| 학교 | school | head, sides | fop: reading | |
| 밤새다 | stay up all night | face, in front | fop: seeing | |
| 부채 | fan | head, side | iup: fan | |
| 반 | study room?, half? | head, sides | fop: seeing | |
| 운동복,체육복 | sportswear* | head, side, chest, ipsi | ma: lifting weights | |
| 바람,바람이 불다 | wind, the wind blows | head, lower, sides | eap: feel air on face | |
| 과목,강좌,교과,학과 목 | subject course | head, sides | fop: seeing | |
| 개학 | school opening | head, sides | fop: reading | |
| 요즘,요사이,요새,요 즈음,최근 | these days | head, side | asp: central | timeline |
| 어린이,새끼,아이, 어린아이, 소아 | child, baby | head, side | ?ma: cooing at baby | |
| 운동선수 | athlete | head, side | ma: lifting weights | |
| 학과 | department | head, sides | fop: seeing | |

Table 68: KSL Location: Forehead

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|--------------|------------------------------|---------------------|-----------------------------------|-----------------------|
| 미안 | sorry | forehead | ma: bow | |
| 죄송하다, 사과 | sorry, apology | forehead | ma: bow | |
| 오후, 하오 | afternoon, hao(?) | forehead | asp: clockface | time |
| 경찰, 순경, 순사 | police, cop, policeman | forehead | iup: wearable | person |
| 오전, 상오 | morning, noon | forehead | asp: clockface | time |
| 기술, 재능, 재주 | skill, talent, talent | forehead | fop: cognition | |
| 오후, 점심 후 | afternoon, after lunch | forehead | asp: clockface | time |
| 실업 | unemployment | forehead | fop: cognition | |
| 할머니, 조모 | grandmother, grandmother | forehead | ?? | |
| 다행 | relief | forehead, across | ma: wiping sweat from forehead | |
| පි | heat | forehead, across | ma: feeling temperature | |
| 고집 | stubborn | forehead | fop: cognition | |
| 오전 | morning, noon | forehead | asp: clockface | time |
| 할아버지, 조부 | grandfather, grandfather | forehead | ?? | |
| 고등학교 | highschool | forehead | asp: height | |
| 닭 | chicken | forehead | ap: crest | creature |
| 고등학생 | highschool student | forehead | asp: height | |
| 내밀다, 무소뿔 | protrude, rhinoceros horn | forehead | ap: rhino horn | creature |
| 기독교, 예수교 | christianity, christianity | forehead | fop: cognition | |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|---------------------------------------|--|--------------------------|---------------------------|-----------------------|
| 딱 맞다 | to be right | forehead | fop: cognition | |
| 라면 | ramen | forehead | ap: crest | creature |
| 기사, 기술자 | engineer, engineer | | fop: cognition | |
| 배드민턴 | badminton | forehead | bor: English 'birdie' | |
| 귀감, 모범, 본받다 | model, exemplify, imitate | forehead | fop: cognition | |
| 치료 | cure | forehead | eap: illness | |
| 완쾌 | full recovery | forehead | eap: illness | |
| 스님, 승려 | monk, monk | forehead | iup: wearable | person |
| 경찰관 | police officers | forehead | iup: wearable | person |
| 소름 | creeps* | forehead, forearm | ap: crest | |
| 낫다, 치유 | better, heal | forehead | eap: illness | |
| 경찰서 | police office | forehead | iup: wearable | person |
| 가마 | palanquin | forehead, eyes, waist | ?? | |
| 모범생 | model student | forehead | fop: cognition | |
| 면역 | immune | forehead | eap: illness | |
| 달인 | master | forehead | fop: cognition | |
| 집요하다 | tenacious | forehead, chin | fop: cognition | |
| 어마어마하다 | awesome | forehead | fop: cognition | |
| 경치, 관람, 구경, 풍경 | Scenery, viewing, viewing, scenery | forehead | ma: shielding eyes | |
| 찌푸리다, 근심 | frown | forehead | fop: facial expression | |
| 고등 | high | forehead | asp: height | |
| 고급 | advanced | forehead | asp: height | |
| 예수교, 기독교 | Jesus, Christianity | forehead | fop: cognition | person |
| 생각, 견해, 사고, 신경, 의견, 의사, 의식, 여기다 | thoughts, opinions, accidents, nerves, opinions, doctors, consciousness, here | temple | fop: cognition | |
| 왜, 어째서 | why, why | temple | fop: cognition | |
| 계획 | plan | temple | fop: cognition | |
| 미련, 어리석다 | regret, foolish | temple | fop: cognition | |
| 고민 | worry | temple | fop: cognition | |
| 반대 | opposition | temple | fop: cognition | |
| 기억, 암기, 외다, 외우다 | remember, memorize, memorize, memorize | temple | fop: cognition | |
| 거치다, 방해, 지장 | go through, obstruct, hinder | temple | ?? | |
| 정신 | mental | temple | fop: cognition | |
| 그리워하다, 동경, 사모, 그리다, 그립다 | Miss, longing, love, draw, draw | temple | fop: cognition | |
| 멍청이, 멍청하다 | dumb, dumb | temple | fop: cognition | |
| 조명, 판단 | lighting, judgement | temple | fop: cognition | |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------|--|------------------------|--------------------------|-----------------------|
| 결의 | resolution | temple | fop: cognition | |
| 멍하다, 멍하니 | blankly, blankly* | temple, mouth | fop: cognition | |
| 냉정 | cool | temple | fop: cognition | |
| 멍청하다, 생각 없다 | I'm stupid, I don't think | temple | fop: cognition | |
| 바른 정신이 아니다 | Not in the right spirit | temple, side | fop: cognition | |
| 심심하다 | bored | temple | fop: cognition | |
| 추억, 상기, 추상, 회상 | memories, reminder, abstract, recollection | temple | fop: cognition | |
| 훌륭하다, 위대하다 | excellent, great | temple | fop: cognition | |
| 의사소통 | communication | temple | fop: cognition | |
| 철학자 | philosopher | temple | fop: cognition | |
| 혹시 | perhaps | temple | fop: cognition | |
| 공감 | sympathy | temple | fop: cognition | |
| 느끼다, 느낌, 뉘앙스 | feel, feel, nuance | temple | fop: cognition | |
| 개 | dog | temple | fop: cognition | |
| 정신적 장애 | mental disorder | temple | fop: cognition | |
| 지식 | knowledge | temple | fop: cognition | |
| 연구 | research | temple | fop: cognition | |
| 기념 | commemoration, memory, remembrance | temple | fop: cognition | |
| 뜻밖에, 의외 | unepectedly | temple | fop: cognition | |
| 정부 | government* | forehead, shoulders | iup: wearable | |
| 갈망 | craving, longing | temple | fop: cognition | |
| 열중, 몰두 | enthusiasm, immersion | temple | fop: cognition | |
| 대학교 | university | forehead to temple | iup: wearable | |
| 대학원 | graduate school | forehead to temple | iup: wearable | |
| 복잡하다, 산만하다 | complicated, distracting | temple | fop: cognition | |
| 곤란 | difficulty | temple | fop: cognition | |
| 박사 | doctor | temple | fop: cognition | |
| 개안, 깨닫다 | open eyes, realize | temple | fop: cognition | |
| 맞다, 딱 | right, just* | forehead, chin | ?? | |
| 신 | God | forehead, chin | ?? | |
| 묵도 | silence* | mouth, forehead | fop: cognition | |
| 금주 | abstinence* | chin, forehead | fop: cognition | |
| 안주 | snack (side dishes | chin, | fop: cognition | |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|--------------|--|-------------------|--------------------------|-----------------------|
| | consumed with alcohol ie: "bar food") | forehead | | |
| 술, 알코올 | alcohol* | chin, forehead | fop: cognition | |

| Table 69: KSL Location: Eye | es |
|-----------------------------|----|
|-----------------------------|----|

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|---------------------------|--|-------------|--------------------------|-----------------------|
| 내일, 명일 | tomorrow | eye, side | asp: central | timeline |
| 며칠 | a few days | eye, side | asp: central | timeline |
| 나흘 | four days | eye, side | asp: central | timeline |
| 일주일, 이레 | a week, seven days | eye, side | asp: central | timeline |
| 개안, 깨닫다 | open eyes, realize* | temple, eye | fop: opening | |
| 갑자기, 갑작스럽다 | suddenly, let it go, suddenly, suddenly | eye, side | fop: seeing | surprise |
| 일개월, 달 | month, one month | eye, below | asp: central | timeline |
| 호텔 | hotel | eye, side | ?? | |
| 어제, 어저께, 작일 | yesterday | eye, side | asp: central | timeline |
| 미래, 다음, 앞날, 장래, 장차, 향후 | future | eye, side | asp: central | timeline |
| 이상하다 [異常-] | it's strange [異常-] | eyes | fop: seeing | |
| 실수 [失手] | mistake [失手] | eyes | fop: seeing | |
| 눈웃음 | eye smile | eyes | bp: eyes | |
| 검사 [檢事] | prosecutor [檢事] | eyes | fop: seeing | person |
| 응시하다 [凝視-] | to stare [凝視-] | eyes | fop: seeing | |
| 놀랍다 | surprising | eyes | fop: seeing | |
| 울리다 | make cry | eyes | fop: crying | |
| 두드러지다 | stand out | eye | bp: eyes | |
| 확약 [確約] | commitment [確約] | eyes | fop: seeing | |
| 내려다보다 | look down | eyes | fop: seeing | |
| 안과 [眼科] | ophthalmology [眼科] | eyes | bp: eyes | |
| 새신랑 [-新郞] | the new groom [-新郞] | eyes | fop: seeing | new |
| 검찰 [檢察] | prosecution [檢察] | eyes | fop: seeing | person |
| 관리 [管理] | management [管理] | eyes | fop: seeing | |
| 보다, 시각 | see, sight | eyes | fop: seeing | |
| 신도시 | new town [新都市] | eyes | fop: seeing | new |
| 관리인 [管理人] | manager [管理人] | eyes | fop: seeing | person |
| 인증서 [認證書] | certificate [認證書] | eyes | bp: eyes | |
| 새색시 | new poem | eyes | fop: seeing | new |
| 슬픔 | sadness | eyes | fop: crying | |
| 경신 [更新] | update | eyes | fop: seeing | new |

| 비전 | vision | eyes | fop: seeing | |
|--------------------------|---------------------|-------------------|------------------|----------|
| 명확하다, 정확, 똑똑하다, | clear | eyes | fop: seeing | |
| 뚜렷하다, | | | | |
| 명료하다, 명백하다, | | | | |
| 명백하다, | | | | |
| 분명하다, 선명하다, | | | | |
| 확실하다, 단연 | | | | |
| 보살핌 | care | eyes | fop: seeing | |
| 입증, 증명 | prove | eyes | fop: seeing | |
| 보관소 [保管所] | archive [保管所] | eyes | fop: seeing | |
| 눈곱 | eye discharge | eyes | bp: eyes | |
| 점검, 감사, 감시, | inspection, audit, | eyes | fop: seeing | |
| 감찰, 검토, 검사, | monitoring | | | |
| 수사, 사찰, 조사, 살펴보다, 살피다 | | | | |
| <u>환각범</u> [幻覺犯] | hallucinogen [幻覺犯] | eyes | fop: seeing | |
| 사진사 | photographer [寫眞師] | eyes | iup: camera | person |
| 현행 범인 | current criminal | eyes | fop: seeing | 1 |
| [現行犯人] | [現行犯人] | | | |
| 새벽 | dawn | eyes, side | fop: seeing | |
| 개월, 몇 개월 | months | eye | asp: central | timeline |
| 월세 | monthly | eye | asp: central | timeline |
| 월부 | monthly installment | eye | asp: central | timeline |
| 월급, 급료, 봉급 | salary | eye | asp: central | timeline |
| 밝히다 | clarify | eyes, in front | fop: seeing | |
| 시각, 보다 | to see, see | eyes, in front | fop: seeing | |
| 울음 | weeping | eye, below | fop: crying | |
| 노출 | exposure | eye | bp: eyes | |
| 소경, 맹인, 장님 | blind | eyes | fop: seeing | |
| 바이러스, 세균 | virus, bacteria | eye | iup: microscope | |
| 맹학교 | blind school | eyes | fop: seeing | |
| 점안약 | eyedrops | eye | iup: eyedropper | |
| 최면 | hypnosis | eyes, in front | iup: pendulum | |
| 기면 | lethargy | eye, under | fop: eye closing | |
| 안대 | eye patch | eye, over | iup: eyepatch | |
| 애가 | lament | eye | fop: crying | |

Table 70: KSL Location: Ears

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------|----------------------------------|----------|--------------------------|-----------------------|
| 듣다, 소리, 소식, 청각 | to hear, sound, news, hearing | ear | fop: hearing | |
| 정보 | information | ear | fop: hearing | |
| 전화번호 | phone number | ear | iup: phone | |
| 통신 중계 | communication relay | ear | iup: headset | |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|--------------------------------|---------------------------------|-------------|------------------------------------|-----------------------|
| 농인, 귀머거리 | deaf | ear | fop: hearing | |
| | telephone | ear | iup: phone | |
| 초문, 금시초문 | first sentence | ear | fop: hearing | |
| 라디오 | radio | ear | fop: hearing | |
| 호두 | walnut | ear | ma: cracking walnut next to ear | |
| 귀 | ear | ear | bp: ear | |
| 난청인 | hearing impaired | ear | fop: hearing | |
| 난청 | hearing loss | ear | fop: hearing | |
| 매미 | cicada | ear | fop: hearing | |
| 뉴스 | news | ear | fop: hearing | |
| 청각장애 | hearing impairment | ear | fop: hearing | |
| 보청기 | hearing aid | ear, behind | iup: wearable | |
| 귀걸이 | earring | ear | iup: wearable | |
| 깜깜하다, 소식이 없다 | there's no news, its dark | ear, side | fop: hearing | |
| 휴대전화, 핸드폰, 휴대폰, 휴대전화기 | mobile phone, cell phone | ear | iup: phone | |
| 소란, 소요, 소음, 야단, 요란, 시끄럽다 | noise, fuss, hustle | ear | fop: hearing | |
| 농 | farm | ear | ?? | |
| 소라 | conch | ear, side | iup: conch to ear | |
| 인공와우 | cochlear implant | ear, behind | iup: wearable | |
| 정보 | information | ear | fop: hearing | |
| 말고 | not, except | ear | ma: cutting ears off | |
| 통신 중계 서비스 | communication relay service | ear | iup: headset | |
| 고막 | eardrums | ear | bp: ear | |
| 녹음 | record | ear | fop: hearing | |
| 귀속형 보청기 | attributive hearing aid | ear, behind | iup: wearable | |
| 이어폰 | earphone | ear, sides | iup: wearable | |
| 청각 영상 | auditory imaging | ear | fop: hearing | |
| 사이렌 | siren | ear | fop: hearing | |
| 듣는 이 | hearer | ear | fop: hearing | |
| 오디오, 듣다, 소식, 청각 | audio, listen, news, hearing | ear | fop: hearing | |
| 난청 | hearing loss* | ear, mouth | fop: hearing | |
| 헛소문 | groundless rumor, canard | ear, side | fop: hearing | |

Table 71: KSL Location: Nose

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|--------------|---------------------|----------|--------------------------|-----------------------|
| 모르는 척하다 | pretend not to know | nose | ?? | |
| 훌륭하다 | excellent | nose | bp: nose | good/beauty |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|---|---|------------------|--------------------------|-----------------------|
| 멋지다, 멋 | something looks good, is handsome, or cool | nose | bp: nose | good/beauty |
| 착하다 | be good* | stomach, nose | lsa: good | |
| 좋다 | to like something, or something that is good | nose | lsa: good | |
| 한숨 | sigh | nose | fop: sigh | |
| 있다 | to remain at a place, or "there is something/someone" | nose | bp: nose | person |
| 개성 [個性] | personality | nose | bp: nose | person |
| 배우다 | to learn | nose | bp: nose | person for learn |
| 돼지 | pig | nose | ap: pig snout | creature |
| 혐의 [嫌疑] | charge, allegations [suspicion] | nose | bp: nose | dirty |
| 교과서, 교본 | a textbook | nose | bp: nose | person for learn |
| 빈틈없다, 완벽 | flawless, perfect | nose | lsa: good | |
| 그냥, 그저 | it's just, just. | nose | fop: exhale | insignificant |
| 안되다 | doesn't work out | nose | fop: exhale | frustration |
| 천하다 [賤-] | lowly | nose, side | ?? | |
| 바보, 천치 | stupid, idiot | nose | ma: finger wiggle | mocking |
| 샘, 샘내다, 시기, 질투 | jealousy, envious, envy, jealousy. | nose | ma: nose wiggle | jealousy |
| 곧다, 단정하다, 똑바르다, 바르다, 반듯하다, 올바르다, 점잖다 | straight, neat, straight, straight, straight, correct, gentle | nose | asp: straight | |
| 성병 [性病] | std | nose | ?? | |
| 안되다 | doesn't work out | nose | fop: exhale | difficult |
| 벅차다 | overwhelmingly difficult | nose | fop: exhale | difficult |
| 가시, 날카롭다, 뾰족하다, 예리하다, 예민하다 | thorn, sharp, pointed, sharp, sensitive | nose | asp: pointed | |
| 휴지 | tissue | nose | iup: tissue | |
| 향기롭다, 향 | fragrant, incense | nose | fop: smell | |
| 악취 | stink | nose | fop: smell | |
| 콧물 | snot | nose | bp: snot | |
| 코뿔소 | rhinoceros | nose | ap: rhino horn | creature |
| 손수건 | handkerchief | nose | iup: handkerchief | |
| 냄새 | smell | nose | fop: smell | |
| 경멸, 깔보다, 멸시, 업신여기다 | contempt, despise | nose, side | ma: blowing snot | dislike |
| 감기 | cold (illness) | nose | ma: wiping nose | illness |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|-------------------------------|------------------------------|---------------------------|---|-----------------------|
| 예 | yes, example | cheek | bor: Korean: 여 | |
| 벌 | bee* | mouth, in front, cheek | eap: bug bites, ma: slap bug | |
| 부끄럽다, 부끄러움, 수줍다, 수치, 창피 | shameful, shy, embarassed | cheek | fop: facial expression | emotion: shame |
| 못하다, 할 수 없다 | can't | cheek | ?? | |
| 예쁘다, 곱다 | pretty, nice | cheek | bp: dimple | |
| 아름답다, 미 | beautiful* | cheek, face | bp: dimple | |
| 누구, 누가, 뉘 | who | cheek, side | ?? | |
| 살찌다 | getting fat | cheek | qop: fat | |
| 노력, 안간힘, 공들이다, 애쓰다, 힘쓰다 | effort, hard work | cheeks | eap: cheek flush | |
| 지방 | fat | cheek | qop: oily | |
| 갈색 | brown* | cheek, chin, in front | qop: brown | |
| 사자 | lion | cheek | ap: mane | creature |
| 김치 | kimchi | cheek | qop: blue | |
| 파란색 | blue* | cheek, chin, in front | qop: blue | |
| 귀여워하다, 귀엽다 | cute | cheek | ma: patting cheek | |
| 의심 | suspicion | cheek | ?ges: suspicion | |
| 배추 | cabbage | cheek | qop: blue | |
| 오이 | cucumber | cheek | qop: blue | |
| 파랑, 청색, 파랗다, 푸르다 | blue | cheek | qop: blue | |
| 하늘, 개다 | sky | cheek | qop: blue | |
| 호랑이, 범 | tiger | cheek | ap: tiger stripes | creature |
| 거짓, 허위 | false. | cheek | ?? false | |
| 녹색, 초록 | green | cheek | qop: blue | |
| 초록색 | green | cheek, chin, in front | qop: green, ap: leaf on a head (of cabbage) | |
| 아깝다 | what a waste | cheek | eap: cheek slap | |
| 내구 | durability | cheek | fop: jaw clench | tough |
| 난항, 어려워하다, 어렵다 | difficult | cheek | fop: jaw clench | tough |
| 마르다, 야위다, 여위다, 수척하다 | skinny | cheek | qop: gaunt cheeks | |
| 과자, 쿠키 | sweets, cookies | cheek | fop: chewing | |
| 와인 | wine | cheek | bor: ASL: WINE | |
| 녹두 | mung bean | cheek, chin | qop: green, ap: leaf on a head (of cabbage) | |
| 감격 | effervescense | cheek | eap: bubbly drink | |

Table 72: KSL Location: Cheek

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|---|--|------------------------------|--|-----------------------|
| 원숭이 | monkey | cheek | ma: scratching cheek | |
| 콜라 | cola | cheek | asp: pepsi logo | |
| 기름, 숙달, 원활, 능숙하다, 매끄럽다, 미끄럽다, 순조롭다, 자주, 빈번히, 낯익다 | oil, mastery, smooth, good, smooth, slippery, smooth, frequent, frequent, familiar | cheek | qop: oily | |
| 잎 | leaf | cheek | qop: blue, ap: leaf on a head (of cabbage) | |
| 사탕, 알사탕, 캔디 | candy | cheek | fop: chewing | |
| 가짜 | fake | cheek | ?? false | |
| 굉장하다, 심하다 | awesome, severe | cheek | ?? | |
| 가령, 만약 | for example, if | cheek | ?? false | |
| 풋사과 | green apple | cheek | qop: blue, ap: leaf on a head (of cabbage) | |
| 꿀 | honey* | cheek, mouth, in front | eap: bug bites, ma: slap bug | |
| 아끼다 | grudge | cheek, contra | eap: cheek slap | |
| 모기 | mosquito | cheek | eap: bug bites, ma: slap bug | |
| 조롱 | mockery | cheek | ges: mocking | |
| 낙엽, 가랑잎, 낙엽이 떨어지다 | fallen leaves | cheek | qop: blue, ap: leaf on a head (of cabbage) | |
| 보약 | replenishment | cheek, contra | fop: eating | |
| 상하다, 다치다, 부상, 상처, 손상 | injured | cheek | eap: cheek strike | |
| 아빠 | dad (non-honorific) | cheek, near nose | bp: cheek/nose wrinkles | old |
| 고모 [姑母] | paternal aunt | cheek, near nose | bp: cheek/nose wrinkles | old |
| 부녀 [父女] | father daughter | cheek, near nose | bp: cheek/nose wrinkles | old |
| 부자 [父子] | rich | cheek, near nose | bp: cheek/nose wrinkles | old |
| 모음 [母音] | vowel | cheek, near nose | bp: cheek/nose wrinkles | old |
| 모자 [母子] | mother and son | cheek, near nose | bp: cheek/nose wrinkles | old |
| 어미 | mother | cheek, near nose | bp: cheek/nose wrinkles | old |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|------------------|-----------------------------------|----------------------------|--------------------------|-----------------------|
| 멍하다, 멍하니 | blankly, blankly* | temple, mouth | fop: blowing | nothing |
| 천명 | appointment | mouth | fop: speaking | |
| 동거 | living together, cohabitiation | mouth, in front | fop: speaking | |
| 일요일 | Sunday | mouth | qop: red | |
| 쉽다, 용이하다, 쉽사리 | easy | mouth | ?? | |
| 가능, 할 수 있다 | possible, can | mouth | ?? | |
| 간, 간장 | liver, soy sauce* | mouth, stomach, side | fop: eating | |
| 먹다, 식사 | eat, meal | mouth | fop: eating | |
| 사과 | apple | mouth | fop: eating | |
| 말씀 | words | mouth | fop: speaking | |
| 벌 | bee* | mouth, in front | fop: eating | |
| 경고 | warning | mouth | fop: speaking | |
| 바다, 해양 | sea, ocean | mouth, side | fop: taste | |
| 말, 말하다, 언어 | speak, language | mouth | fop: speaking | |
| 침 | spit, needle | mouth | fop: spitting | |
| 양치질, 양치 | brushing teeth | mouth | ma: brushing teeth | |
| 삼키다 | gulping down | mouth to chest | fop: eating | |
| 노래, 음악, 가요 | song, music | mouth | fop: singing | |
| 눈 | snow, eye | mouth, teeth | qop: white | |
| 연습 | practice, exercise | mouth, in front | ?? | |
| 돌잔치 | first birthday party | mouth | ?? | |
| 감 | persimmon, feeling | mouth | fop: eating | |
| 사정, 정액 | ejaculation, semen | mouth, teeth | qop: white | |
| 인터뷰 | interview | mouth, in front | iup: microphone | |
| 그렇다, 그러하다 | yes, yes | mouth | fop: speaking | |
| 누락, 빠지다 | omission, fall out | mouth | ?? | |
| 비, 강우, 비가 내리다 | rain | mouth | fop: drinking | |
| 결손, 손해, 손실 | loss, damage | mouth | qop: red | |
| 사기 | scam | mouth, side | ?? | |
| 묵도 | silence* | mouth, forehead | fop: speaking | |
| 바로 | right away, immediately | mouth | asp: central | timeline |
| 비다 | be empty | mouth | fop: blowing | nothing-there |
| 수리, 독수리 | eagle | mouth | ap: beak | creature |

Table 73: KSL Location: Mouth

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|-----------------|----------------------|------------------------------|--------------------------|-----------------------|
| 구름 | cloud | mouth, teeth | qop: white | |
| 수분, 습하다 | moisture | mouth | fop: drinking | |
| 바나나 | banana | mouth, teeth | qop: yellow | |
| 돌 | stone, | mouth | ?? Stone | |
| 변호사 | lawyer | mouth | ?? | |
| 도장, 스탬프 | seal, stamp | mouth | fop: licking (stamp) | |
| 매수 | buying | mouth | ?? | |
| 매 | hawk | mouth | ap: beak | creature |
| 고백, 고해 | confession | mouth, in front | fop: speaking | |
| 분홍 | pink | mouth, below | qop: pink | |
| 노랑, 노랗다, 누렇다 | yellow | mouth, teeth | qop: yellow | |
| 곰 | bear | mouth | ?ma: licking paws | creature |
| 매음녀, 매춘부, 창녀 | prostitute | mouth, side | ?? | |
| 짜다, 소금 | salty, salt | mouth | fop: taste | |
| 돌부처 | stone buddha | mouth | ?? | |
| 백화 | all sorts of flowers | mouth, teeth | qop: white | |
| 수증기, 증기 | water vapor, steam | mouth | fop: drinking | |
| 노란색, 황색 | yellow, yellow | mouth, teeth, mouth | qop: yellow | |
| 보람 | reward | mouth, in front | ?? | |
| 쓰다 | write | mouth | ma: put pen in mouth | |
| 앞니 | incisor | mouth, teeth | bp: teeth | |
| 파 | onion, wave | mouth | fop: eating | |
| 물 | water | mouth | fop: drinking | |
| 독, 독하다 | poison | mouth, side | fop: taste | |
| 뻔하다 | obvious, almost | mouth | ?? | |
| 꿀 | honey* | cheek, mouth, in front | fop: taste | |
| 난청 | hearing loss* | ear, mouth | fop: speaking | |
| 냉면 | cold noodles | mouth | fop: eating | |

Table 74: KSL Location: Chin

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|--------------|-----------------------------|---------------------|--------------------------|-----------------------|
| 검은색 | black color* | head, side, chin | lsa: color | |
| 꿈, 포부, 꿈꾸다 | dream, aspiration, dream | chin | ?? | |
| 맞다, 딱 | right, just* | forehead, chin | ?? | |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|------------------------------|--|-------------------|--------------------------|-----------------------|
| 신 | god | forehead, chin | ?? | |
| 괜찮다, 무방하다 | okay, okay | chin | fop: speaking | |
| 기다리다, 대기 | wait, wait | chin, under | ma: resting on chin | |
| 사실, 정말, 진짜, 참, 맞다, 정말로 | right, true, really | chin | fop: speaking | |
| 당연하다, 마땅하다 | naturally, deserved | chin | fop: speaking | |
| 만, 뿐, 다만, 단지, 오로지, 오직, 한낱 | only | chin | asp: central | timeline |
| 맛있다, 맛나다, 맛 | delicious, taste | chin, in front | fop: taste | |
| 행복, 복 | happiness, bless | chin | fop: facial expression | |
| 취미 | taste, hobby, fancy | chin | fop: taste | |
| 당연하다, 물론 | of course, of course | chin | fop: speaking | |
| 나이, 나잇살, 살, 연령, 연세 | age | chin, under | ?? | |
| 요일 | day of the week | chin | asp: central | timeline |
| 가난뱅이 | poor man | chin | ?? | poverty |
| 싫다, 거부, 거절 | dislike, reject, hate | chin | ?ges: dislike | |
| 비 | minute | chin | ?asp: clockface | time |
| 웃다, 웃음 | laugh, laugh | chin | fop: facial expression | |
| 가난, 곤궁, 궁핍, 빈곤 | poverty, hardship | chin, under | ?? | poverty |
| 금주 | abstinence* | chin, forehead | fop: drink | |
| 안주 | snack [side dishes consumed with alcohol ie: "bar food"] | chin, forehead | fop: drink | |
| 속다 | get fooled | chin | ?? | |
| 맛없다 | not delicious | chin | fop:taste | |
| | | | | |
| 푼 | paid | chin | ?? | |
| 콩가루 | soybean flour | chin | fop: eating | |
| 실험 | experiment | chin | fop: speaking | |
| 당사자 | party | chin | fop: speaking | |
| 색깔, 빛깔, 색, 색상, 색채, 컬러 | color | chin, in front | lsa: color | |
| 술, 알코올 | alcohol* | chin, forehead | fop: drink | |
| 밤 | night | chin | ?? | |
| 개인 | individual | chin | ?? | |
| 불행 | unhappiness | chin | fop: facial expression | |
| 거부권 | veto | chin | ma: head shake | |
| 까 | soybean | chin | fop: eating | |
| 불평 | complain | chin | fop: speaking | |
| 콩나물 | beansprout | chin | fop: eating | |
| 노리다 | to watch | chin | ?? | |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|------------------------|---------------------|--------------------------|----------------------------|-----------------------|
| 감기 | cold | chin | fop: spitting up | |
| 엉덩이, 궁둥이, 볼기, 히프 | butt | chin | ap: butt | |
| 끈기, 끈덕지다, 끈질기다 | tenacity, tenacious | chin | ?? | |
| 오징어 | squid | chin, under | ap: tentacles | creature |
| 실제, 실정, 실태, 현실 | reality, facts | chin | fop: speaking | |
| 팬티 | panties, underpants | chin | iup: clothing, ap: butt | |
| 한국어 대응표현 협박, -할 뻔하다 | blackmail, threat | chin | fop: speaking | |
| 이따가 | later | chin | ma: resting on chin | |
| 갈색 | brown* | cheek, chin, in front | lsa: color | |
| 파란색 | blue* | cheek, chin, in front | lsa: color | |
| 당하다 [當-] | be beaten [當-] | chin, side | eap: to get hit | |
| 초록색 | green | cheek, chin, in front | lsa: color | |

Table 75: KSL Location: Neck

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|---|---|----------|--|-----------------------|
| 기침 | cough | neck | fop: coughing | |
| 희생자 [犧牲者] | victim | neck | ma: cutting throat | death |
| 싶다, 갈급 | want, crave | neck | eap: thirst | desire |
| 산화 [散花] | oxidation, sacrifice | neck | ma: cutting throat | death |
| 사제 [司祭] | priest | neck | iup: collar | person |
| 목소리, 음성, 발음, 목청, 언성, 부르다 | voice, voice, pronunciation, voice, voice, call | neck | fop: speaking | |
| 내키다, 싶다, 원하다, 바라다, 소원, 바람, 욕구, 염원, 원 | want, want, want, wish, wish, wish, desire, desire, want | neck | eap: thirst | desire |
| 겹치다 | to overlap | neck | bp: two tumors on neck | |
| 전세 [傳貰] | a type of lease for an apartment that involves giving a large sum of money at one time (a technical term) | neck | ma: chopping neck | risk |
| 마음에 들다 | to like | neck | bor: Korean: 고비를 넘기는 것 "to be over the hump" | |
| 어색하다 | it is awkward | neck | bp: neck | |
| 목마르다 | thirsty | neck | eap: thirst | |
| 의정부 [議政府] | uijeongbu [議政府] | neck | bp: head | rank |

| 배신 [背信] | betrayal [背信] | neck | eap: biting neck | |
|-----------|------------------------------|------------|--|-----------------|
| 체험 [體驗] | experience [体驗] | neck | bor: Korean: 고비를 넘기는 것 "to be over the hump" | |
| 질색 [窒塞] | disgust [窒塞] | neck | ma: recoiling in disgust | |
| 자결, 자살 | suicide | neck | ma: cutting throat | death |
| 저혈압 [低血壓] | hypotension [低血壓] | neck, side | fop: blood flow | |
| 대통령 [大統領] | president [大統領] | neck | bp: head | rank for person |
| 고혈압 [高血壓] | high blood pressure [高血壓] | neck | fop: blood flow | |
| 장관 [長官] | minister [長官] | neck | bp: head | rank for person |
| 적 없다 | never | neck | bor: Korean: 고비를 넘기는 것 "to be over the hump" | |
| 지원자 [志願者] | applicant [志願者] | neck | eap: thirst | desire |
| 목 | neck | neck | bp: neck | |
| 혈압 [血壓] | blood pressure [血壓] | neck | fop: blood flow | |

Table 76: KSL Location: Shoulders

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|--|--|-------------------------------|--------------------------|-----------------------|
| 정부 | government* | forehead, shoulders | iup: wearable | |
| 역도 | weightlifting | waist, shoulders, overhead | ma: weightlifting | |
| 갱생, 회복 | rebirth, recovery | shoulder, ipsi to NDH | asp: length | measure |
| 니이 | back | shoulder, behind | bp: back | |
| По | rank | shoulder, contra | iup: wearable | rank |
| 뒤쪽, 뒷머리 | back and back | should, above, behind | bp: back | |
| 제일, 가장, 맨, 수석 | the best, the most, the man, the senior | shoulder, contra front | iup: wearable | rank |
| 자라다, 발육, 성숙, 성장, 장성 | grow, development, maturity | shoulders | asp: length | measure |
| 유도 | judo | shoulder, ipsi to NDH | ma: shoulder throw | sport |
| 제자, 모나코, 사도 | disciple, apostle* | shoulder to stomach | iup: wearable | person |
| 감당, 사명, 책임, 담당, 소임, 역임, 맡다, 책임지다 | handle, mission, responsibility, charge, duty, service | shoulder, ipsi | iup: wearable | responsibility |
| 복귀, 환원, 되돌리다, 그대로 | return, reduction, return, as it is | shoulders | asp: length | measure |
| 건빵 | hardtack (hard bread, similar to cracker) | shoulder, contra | ?qop: hard | |
| 구청 | ward office* | shoulder to stomach | iup: wearable | |
| 신사 | gentleman | shoulders | ?iup: wearable | |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|--------------|------------------------|-----------------|--------------------------|-----------------------|
| 부자 | wealthy | shoulder | ?? | |
| 과거, 지나다 | past | shoulder, above | asp: central | timeline |

| Tuble 77. Roll Location, Chest | Table 77: KSL Location: Chest | |
|--------------------------------|-------------------------------|--|
|--------------------------------|-------------------------------|--|

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|-----------------------------------|---|----------------------------|--------------------------|-----------------------|
| 작업복 | smock | chest, ipsi | iup: wearable | |
| 이불, 침구, 덮다 | quilt, bedding, cover | | iup: wearable | |
| 화가 치밀어 오르다 | to get angry | chest | eap: emotion | anger |
| 운동복, 체육복 | sportswear* | head, side, chest, ipsi | iup: wearable | |
| 알다 | know | chest | ?bp: chest | self |
| 모르다 | I don't know | chest, ipsi | ?bp: chest | self |
| 우리, 저희 | us, we | chest | bp: chest | self |
| 싫다, 싫어하다 | dislike | chest | bp: chest | self |
| 걱정, 근심, 상심, 시름, 염려, 우수, 괴롭다 | worry, anxiety, heartache, annoyance, anxiety, excellent, annoying | chest, in front | eap: emotion | fear |
| 나, 내, 제 | me, my | chest | bp: chest | self |
| 자신 | myself | chest | bp: chest | self |
| 받다, 얻다, 타다 | to receive | chest | bp: chest | self |
| 위험, 험하다 | danger, its tough | chest | ?? | |
| 참다, 견디다, 인내, 자제 | tolerate, patience, self- control | chest | eap: emotion | |
| 이중 | double | chest | bp: chest | self |
| 무섭다, 겁, 겁나다, 두려워하다, 두렵다 | scared, terrified, afraid | chest | eap: emotion | fear |
| 기타 | guitar | chest | iup: guitar | |

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| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|--------------|-----------------------|----------|--------------------------|-----------------------|
| 명예 훼손 | defamation | heart | iup: wearable | |
| 이름,명,성명,성함 | first name, full name | heart | iup: wearable | |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|---|---|-------------------------|---------------------------|-----------------------|
| 수고, 노고, 품 | hard work, hard work, product | forearm, top | asp: surface | |
| 안녕하세요, 안녕하십니까, 안녕히 가십시오, 안녕히 계세요 | hello, hello, goodbye.goodbye. | forearm, top | lsa: good | |
| 잘하다, 잘 | do well | forearm, top | lsa: good | |
| 신문 | newspaper | forearm, top | asp: printing press | |
| 간단하다, 간략하다, 간편하다, 단순, 편리, 편의 | simple, simple, simple, simple, simple, convenient. | forearm, top | asp: surface | |
| 권위 | authority | upper arm | iup: wearable | rank |
| 과대 | exaggeration | forearm, top | asp: length | measure |
| 별로, 그다지 | not really. not really. | forearm, top | lsa: good | |
| 썩 잘하다 | do a great job | forearm, top | lsa: good | |
| 다니다 | attend | forearm, side | ?? | |
| 잘못 | fault | forearm, top | lsa: good | |
| 피부병 | skin disease | forearm, top | ma: scratch arm | |
| 대령 | colonel | forearm, top | iup: wearable | rank for person |
| 내력 | history | forearm, top | ?? | |
| 귀찮다, 불편, 성가시다 | it's annoying. it's uncomfortable. it's annoying. | forearm, top | ma: scratch arm | |
| 주사 | injection | upper arm | eap: injection | |
| 수영 | swimming | upper arm to forearm | asp: surface | |
| 하사 | staff sergeant | upper arm | iup: wearable | rank for person |
| 공, 공, | distinguished services | forearm, top | asp: surface | |
| 대위 | captain | forearm, top | iup: wearable | rank for person |
| 이사, 완장 | director, armband | upper arm | iup: wearable | rank for person |
| 오른쪽, 우측 | right (direction) | forearm, top | asp: right | |
| 권리, 권한 | right, rights (authority) | upper arm | bp: bicep | power |
| 왼쪽, 좌측, 좌 | left (direction) | forearm, top | asp: left | |
| 걷어붙이다, 적극 | roll up (sleeves) | forearm, top | ma: rolling up sleeves | |
| 무능력, 무자격 | incapacity, incompetence | upper arm | bp: bicep | power |
| 실습 | practice | forearm, top | ?? | |
| 특히, 각별, 별, 특별, 특수 | especially, each, star, special, special | forearm, top | lsa: good | |
| 고속철도 | high speed railway | forearm, top | asp: surface | |

Table 79: KSL Location: Arms

| 낙타 | camel | upper arm | asp: camel humps | creature |
|------------------------|---------------------------|-------------------------|-----------------------|-----------------|
| 노트북 컴퓨터 | laptop | forearm, top | bor: ASL: COMPUTER | |
| 거세다, 맹렬하다, 진하다, 힘차다 | it's strong, it's fierce. | forearm, top | bp: arm | power |
| 횡령죄 [橫領罪] | embezzlement [橫領罪] | elbow | asp: surface | cover |
| 소매 | sleeve | forearm to armpit | iup: wearable | |
| 장교 | officer | forearm to upper arm | iup: wearable | rank for person |
| 집사 | butler | upper arm | iup: wearable | rank for person |

Table 80: KSL Location: Elbow

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|----------------------------------|---------------------|----------|--------------------------|-----------------------|
| (No signs found at the elbow) | | | | |

Table 81: KSL Location: Wrist

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|--------------|---------------------|-------------|--------------------------|-----------------------|
| 대장 | general | wrist, back | iup: wearable | rank for person |
| 가렵다, 긁다 | itches, scratch | wrist, back | ma: scratch arm | |

Table 82: KSL Location: Stomach

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|--|--|---------------------|--------------------------|-----------------------|
| 필요, 소용 | need, use, want | stomach | bp: stomach | heart |
| 설사 | diarrhea | stomach | eap: illness | |
| 화나다, 노여움, 노엽다, 노하다, 성나다, 성내다, 화내다 | angry | stomach to chest | fop: emotion | anger |
| 배부르다, 부르다 | to be full | stomach | bp: stomach | |
| 망설이다, 주저, 머무적거리다, 머뭇거리다, 서슴다 | hesitate, hesitate, stay intact, hesitate, hesitate | stomach | fop: emotion | hesitance |
| 회개 | penitence | stomach | bp: stomach | heart |
| 쌍생아, 쌍둥이 | twins | stomach | fop: birth | |
| 따스하다 | warm | stomach to chest | eap: feeling warm | |
| 개구리 | frog | stomach | ma: tapping stomach | creature |
| 양심 | conscience | stomach | bp: stomach | heart |
| 각오, 결심, 작정 | resolution, determination | | bp: stomach | heart |
| 아들 | son | stomach | fop: birth | |
| 착하다 | be good* | stomach, nose | bp: stomach | heart |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|--------------|---------------------|----------|--------------------------|-----------------------|
| 딸, 여식 | son | stomach | fop: birth | |
| 소극적 | passive | stomach | ma: keep to oneself | |

| 낳다, 나다, 태어나다, 분만, 생식, 출산, 출생, 탄생, 해산 | give birth | stomach | fop: birth | |
|---|----------------------------|----------------------------|---------------|--------|
| 자음 | consonant, sound of a word | stomach | fop: birth | |
| 사위 | son-in-law | stomach | fop: birth | |
| 양보 | concession, yield | | bp: stomach | heart |
| 소용없다, 쓸데없다, 쓸모없다, 필요 없다 | useless, no need | stomach | bp: stomach | heart |
| 배 | belly, abdomen, ship | stomach | bp: stomach | |
| 좁다, 옹졸하다, 치사하다 | narrow, small, sloppy | stomach | qop: skinny | |
| 배탈 | upset stomach | stomach | eap: illness | |
| 용감하다, 용기 | brave, courage | stomach | bp: stomach | heart |
| 다급하다, 성급하다, 조급하다 | urgent, impatient | stomach | fop: emotion | anger |
| 고향 | home town | stomach | fop: birth | |
| 협동 | collaboration | stomach | bp: stomach | heart |
| 회개 | penitence | stomach | bp: stomach | heart |
| 회개, 회두, 회심 | repentance, conversion | stomach | bp: stomach | heart |
| 챔피언 | champion | stomach | iup: wearable | person |
| 배부르다 | full | stomach | bp: stomach | |
| 재료 | material | stomach | bp: stomach | heart |
| 관대하다, 너그럽다 | generous | stomach, front to side | bp: stomach | heart |
| 간, 간장 | liver, soy sauce* | mouth, stomach, side | bp: liver | |
| 제자, 모나코, 사도 | disciple, apostle* | shoulder to stomach | iup: wearable | person |
| 구청 | ward office* | shoulder to stomach | iup: wearable | |

| Korean Gloss | English Translation | Location | Category of Iconicity | Metonym / Metaphor |
|-----------------------------------|------------------------|---------------------------|--------------------------|-----------------------|
| 가마 | palanquin* | forehead, cheeks, legs | iup: palanquin | |
| 가방 | bag | waist, side | iup: bag | |
| 게으름, 게으르다, 게으름을 피우다, 나태, 태만 | to be lazy | waist | ma: pulling with effort | character |
| 게으름뱅이 | lazy person | waist | ma: pulling with effort | character for person |
| 기저귀 | diaper | waist | iup: diaper | |
| 넓적다리뼈 | thigh bone | leg | bp: thigh | |
| נכן | belt | waist, in front | iup: wearable | |

| 미니스커트 | miniskirt | legs | iup: wearable |
|------------------|---------------------------------------|----------------------------------|--|
| 바지 | pants | waist, in front | iup: wearable |
| 배변 | bowel movement | waist, behind | fop: bowel movement |
| 볼링 | bowling | waist, beinnu waist | ma: bowling |
| | , , , , , , , , , , , , , , , , , , , | | ° |
| 뿌리다 | spread, sow | waist, in front | ma: spreading seed |
| 손가방, 핸드백 | handbag, handbag | waist, in front | iup: handbag |
| 수도 | capital | waist | iup: wearable (belt) |
| 수도원 | monastery | waist, in front | iup: wearable (belt) |
| 수도자 | religious | waist | iup: wearable (belt) |
| 수도회 | order, convent | waist | iup: wearable (belt) |
| 역도 | weightlifting | waist, shoulders, overhead | ma: weightlifting |
| 요통 | lumbago, back pain | waist, side | bp: lower back |
| 잃어버리다, 분실, 잃다 | lost, lost, lost | waist | asp: behind |
| 입다 | put on | leg, waist | iup: wearable |
| 치마 | skirt | waist | iup: wearable |
| 태권도 | taekwondo | waist | ma: taekwondo |
| 테니스, 정구 | tennis, tennis | waist | ma: swing tennis racket |
| 테니스를 치다 | play tennis | waist, in front | ma: swing tennis racket |
| 포복절도 | crawling | waist, side | ma: holding the stomach in laughter |
| 허리 | waist | waist, side | bp: waist |
| 허리띠 | waist belt | waist | iup: wearable |
| 휠체어 | bathchair, wheelchair | waist, side | ma: using a wheelchair |

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